



Application for Permit to Drill

APD Package Report

Date Printed:

APD ID:	Well Status:
APD Received Date:	Well Name:
Operator:	Well Number:

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 4 file(s)
 - Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - Casing Design Assumptions and Worksheet(s): 1 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 5 file(s)
 - Other Facets: 2 file(s)
 - Other Variances: 2 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 4 file(s)
 - Water source and transportation map: 1 file(s)
 - Construction Materials source location attachment: 1 file(s)
 - Well Site Layout Diagram: 3 file(s)
 - Recontouring attachment: 1 file(s)
- PWD Report
- PWD Attachments
 - None
- Bond Report

- Bond Attachments
 - None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-58015
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | <ul style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to a new evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: NENW / 424 FNL / 1899 FWL / TWSP: 25S / RANGE: 26E / SECTION: 23 / LAT: 32.121434 / LONG: -104.265875 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 100 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 23 / LAT: 32.122279 / LONG: -104.270945 (TVD: 7060 feet, MD: 7237 feet)
PPP: NWNW / 0 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 26 / LAT: 32.108042 / LONG: -104.2709 (TVD: 7634 feet, MD: 8607 feet)
PPP: NWSW / 2640 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 23 / LAT: 32.115299 / LONG: -104.270923 (TVD: 7634 feet, MD: 8357 feet)
PPP: NWNW / 0 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 35 / LAT: 32.093534 / LONG: -104.271074 (TVD: 7634 feet, MD: 18065 feet)
PPP: SWNW / 1320 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 26 / LAT: 32.104414 / LONG: -104.270942 (TVD: 7634 feet, MD: 12817 feet)
PPP: NWSW / 2644 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 26 / LAT: 32.100774 / LONG: -104.270984 (TVD: 7634 feet, MD: 15427 feet)
BHL: SWSW / 100 FSL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 35 / LAT: 32.079303 / LONG: -104.271291 (TVD: 7634 feet, MD: 23236 feet)

BLM Point of Contact

Name: CANDY VIGIL
Title: LLE
Phone: (575) 234-5982
Email: CVIGIL@BLM.GOV

CONFIDENTIAL

Pintail 23 26 35 FEDERAL COM 12H

APD - Geology COAs (Not in Potash or WIPP)

- For at least one well per pad (deepest well within initial development preferred) the record of the drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. Well completion report should have .pdf copies of any CBLs or Temp Logs run on the wellbore.
- Exceptions: In areas where there is extensive log coverage (in particular the salt zone adjacent to a pad), Operators are encouraged to contact BLM Geologists to discuss if additional GR and N logs are necessary on a pad. Operator may request a waiver of the GR and N log requirement due to good well control or other reasons to be approved by BLM Geologist prior to well completion. A waiver approved by BLM must be attached to completion well report to satisfy COAs.
- The top of the Rustler, top and bottom of the Salt, and the top of the Capitan Reef (if present) are to be recorded on the Completion Report.

Be aware that:

- H2S has been reported within one mile of the proposed project. Measurements up to 1200 ppm were recorded from the Delaware Group.

Questions? Contact Thomas Evans, BLM Geologist at 575-234-5965 or tvevans@blm.gov

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Coterra Energy Operating Co
LEASE NO.:	NMNM94076
COUNTY:	Eddy County, New Mexico

Wells:

Pintail 23-26-35 Federal Com 11H

Surface Hole Location: 424 feet FNL and 1899 feet FWL, Section 23, T. 25 S., R. 26 E.

Bottom Hole Location: 100 feet FSL and 330 feet FWL, Section 35, T. 25 S, R 26 E.

Pintail 23-26-35 Federal Com 12H

Surface Hole Location: 424 feet FNL and 1919 feet FWL, Section 23, T. 25 S., R. 26 E.

Bottom Hole Location: 100 feet FSL and 330 feet FWL, Section 35, T. 25 S, R 26 E.

Pintail 23-26-35 Federal Com 13H

Surface Hole Location: 389 feet FNL and 1899 feet FWL, Section 23, T. 25 S., R. 26 E.

Bottom Hole Location: 100 feet FSL and 330 feet FWL, Section 35, T. 25 S, R 26 E.

Pintail 23-26-35 Federal Com 16H

Surface Hole Location: 424 feet FNL and 1939 feet FWL, Section 23, T. 25 S., R. 26 E.

Bottom Hole Location: 100 feet FSL and 1600 feet FWL, Section 35, T. 25 S, R 26 E.

Pintail 23-26-35 Federal Com 17H

Surface Hole Location: 389 feet FNL and 1939 feet FWL, Section 23, T. 25 S., R. 26 E.

Bottom Hole Location: 100 feet FSL and 1600 feet FWL, Section 35, T. 25 S, R 26 E.

Pintail 23-26-35 Federal Com 19H

Surface Hole Location: 389 feet FNL and 1919 feet FWL, Section 23, T. 25 S., R. 26 E.

Bottom Hole Location: 100 feet FNL and 2319 feet FWL, Section 35, T. 25 S, R 26 E.

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (*Peganum harmala*)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. Downfacing

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. Shielding

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. Lighting Color

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

2.1.1. General Construction

- Any water erosion that may occur due to the construction of ROW/surface site and during the life of the ROW/surface site will be quickly corrected and proper measures will be taken to prevent future erosion.
 - Erosion control structures such as curled (plastic free and weed free) wood/straw fiber wattles/logs, silt fences, diversion berms, or other soil erosion controls to slow water migration across disturbed areas should be installed during construction and reclamation or as needed.
 - Regular monitoring of any erosion control structures placed in or along the ROW/surface site is recommended, both following precipitation events and regularly during monsoon season (June – September).
- Any spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

2.1.2. Surface Site and/or Pad

- The entire surface site/pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. No waterflow from the uphill side(s) of the pad shall be allowed to enter the pad.
- Topsoil shall not be used to construct the berm. The compacted berm should be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche).
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any water erosion that may occur due to the construction of the well pad during the life of the well will be immediately corrected and proper measures will be taken to prevent future erosion.
- Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location with wattles (recommended minimum 9” height) surrounding the stockpiled soil to prevent soil loss due to water/wind erosion. The wattles are to be maintained throughout the life of the project.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state-approved facility.

2.1.3. Tank Battery

- Tank battery locations will be lined and bermed. Tank battery berms should be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater. Liners should be permanently installed, at least 20 mil (0.20in) thick with a 4 oz. felt backing to prevent tears or punctures.
- Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.1.4. Buried/Surface Line(s)

- When crossing ephemeral drainages (marked and unmarked), the pipeline(s) will be buried to a minimum depth of **48 inches** from the top of pipe to ground level. In ephemeral flow paths, rivers, and streams excess soil is to be compacted, contoured, and level to ground surface, allowing water to flow in its natural state. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.
- Prior to pipeline installation/construction, a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan should incorporate an automatic shut-off system or manual shut-off valves with active monitoring to minimize the effects of an undesirable event.

- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.

2.1.5. Electric Line(s)

- A power pole must not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that does not promote further erosion.

2.1.6. Temporary Use Fresh Water Frac Line(s)

- Once the temporary use exceeds the timeline of 180 days and/or with a 90-day extension status; further analysis will be required if the applicant pursues to turn the temporary ROW into a permanent ROW.
- The pipeline is to not obstruct ephemeral drainages or streams, allowing water to flow in its natural state unobstructed.
- Prior to pipeline installation/construction, a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan should incorporate an automatic shut-off system or manual shut-off valves with active monitoring to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.

2.2. CAVE/KARST

2.2.1. General Construction

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- This is a sensitive area and all spills or leaks will be reported to the BLM immediately for their immediate and proper treatment, as defined in NTL 3A for Major Undesirable Events.

2.2.2. Pad Construction

- The pad will be constructed and leveled by adding the necessary fill and caliche. No blasting will be used for any construction or leveling activities.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will be vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

2.2.3. Buried Pipeline/Cable Construction

- Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

2.2.4. Powerline Construction

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

2.2.5. Residual and Cumulative Mitigation

The operator will perform annual pressure monitoring on all casing annuli. If the test results indicate a casing failure has occurred, contact a BLM Engineer immediately, and take remedial action to correct the problem.

2.2.6. Plugging and Abandonment Mitigation

Upon well abandonment in high cave karst areas, additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

2.3 WILDLIFE

2.3.1 Texas Hornshell Mussel

Oil and Gas and Associated Infrastructure Mitigation Measures for Zone D – CCA Boundary Requirements:

- Provide CEHMM with the permit, lease, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

Oil and Gas Zone D - CCA Boundary requirements.

- Implement erosion control measures in accordance with the Reasonable and Prudent Practices for Stabilization (“RAPPS”)
- Comply with SPCC requirements in accordance with 40 CFR Part 112;
- Comply with the United States Army Corp of Engineers (USACE) Nationwide 12 General Permit, where applicable;
- Utilize technologies (like underground borings for pipelines), where feasible;
- Educate personnel, agents, contractors, and subcontractors about the requirements of conservation measures, COAs, Stips and provide direction in accordance with the Permit.

2.4 VISUAL RESOURCE MANAGEMENT

2.5.1 VRM IV

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

3. CONSTRUCTION REQUIREMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain enclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of enclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACCESS ROAD

3.7.1 Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

3.7.2 Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

3.7.3 Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

3.7.4 Ditching

Ditching shall be required on both sides of the road.

3.7.5 Turnouts

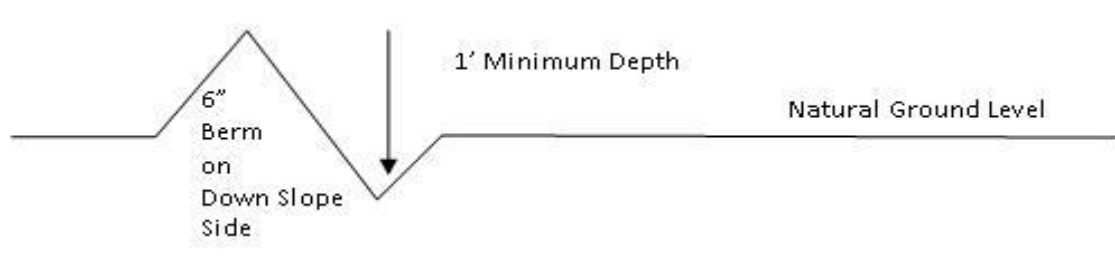
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out-sloping and in-sloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4} + 100' = 200' \text{ lead-off ditch interval}$$

3.7.7 Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

- Construction Steps**
1. Salvage topsoil
 2. Construct road
 3. Redistribute topsoil
 4. Revegetate slopes



Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, siting valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.1 BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:
 - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.
10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.
12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

14. Special Stipulations:

Karst:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered, alignments may be rerouted to avoid the karst feature and lessen the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.2 OVERHEAD ELECTRIC LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
 - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.
12. Karst stipulations for overhead electric lines
 - Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
 - The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
 - No further construction will be done until clearance has been issued by the Authorized Officer.
 - Special restoration stipulations or realignment may be required.

4.3 RANGLAND MITIGATION FOR PIPELINES

4.5.1 Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its

prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 Placement of Production Facilities

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12", unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permittee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 1 for Loamy Sites

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Coterra Energy Operating Co
LOCATION:	Section 23, T.25 S., R.26 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Pintail 23-26-35 Federal Com 11H
ATS/API ID:	ATS-26-909
APD ID:	10400109453
Sundry ID:	N/a

WELL NAME & NO.:	Pintail 23-26-35 Federal Com 12H
ATS/API ID:	ATS-26-908
APD ID:	10400109580
Sundry ID:	N/a

WELL NAME & NO.:	Pintail 23-26-35 Federal Com 16H
ATS/API ID:	ATS-26-912
APD ID:	10400109582
Sundry ID:	N/a

WELL NAME & NO.:	Pintail 23-26-35 Federal Com 17H
ATS/API ID:	ATS-26-911
APD ID:	10400109583
Sundry ID:	N/a

COA

H2S	<input type="text" value="Yes"/>		
Potash	<input type="text" value="None"/>	<input type="text" value="None"/>	
Cave/Karst Potential	<input type="text" value="High"/>		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="text" value="Conventional and Multibowl"/>		
Other	<input type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef <input type="text" value="None"/>	<input type="checkbox"/> WIPP
Other	Pilot Hole <input type="text" value="None"/>	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze <input type="text" value="None"/>	Echo-Meter <input type="text" value="None"/>	Primary Cement Squeeze <input type="text" value="None"/>
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention <input type="text" value="Waste MP"/>	
Special Requirements Variance	<input type="checkbox"/> BOPE Break Testing <input type="checkbox"/> Offline BOPE Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **350 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **1895 feet** is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record),

or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Acceptable Method of Cement Verifications:
 - a. Observing cement circulated to surface.
 - b. Cement bond log (CBL).
 - c. Temperature log within 8-10 hours after completing the cement job.
 - d. Echometer (if a second-stage bradenhead squeeze is being used).
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
8. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
9. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin

after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 3/16/2026



Operator Certification Data Report

03/18/2026

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: CRYSTAL DENSON

Signed on: 03/13/2026

Title: Regulatory Analyst

Street Address: 6001 DEAUVILLE BLVD SUITE 300N

City: MIDLAND

State: TX

Zip: 76706

Phone: (432)620-1644

Email address: CRYSTAL.DENSON@COTERRA.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data

03/18/2026

APD ID: 10400109580

Submission Date: 01/19/2026

Highlighted data reflects the most recent changes
[Show Final Text](#)

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400109580

Tie to previous NOS? N

Submission Date: 01/19/2026

BLM Office: Carlsbad

User: CRYSTAL DENSON

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM94076

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: COTERRA ENERGY OPERATING CO

Operator letter of

Operator Info

Operator Organization Name: COTERRA ENERGY OPERATING CO

Operator Address: 3001 DEAUVILLE BLVD SUITE 300 N

Zip: 79705

Operator PO Box:

Operator City: MIDLAND

State: TX

Operator Phone: (432)620-1642

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Field/Pool or Exploratory? Field and Pool

Field Name: Wildcat G-04
S252623M

Pool Name: Bone Spring

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Pintail 23-26-35 Federal Com

Number: E2W2

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 17 Miles

Distance to nearest well: 20 FT

Distance to lease line: 100 FT

Reservoir well spacing assigned acres Measurement: 960 Acres

Well plat: PINTAIL_23_26_35_FEDERAL_COM_C102_12H_01062026_20260114070901.pdf

Well work start Date: 03/01/2025

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	424	FNL	1899	FWL	25S	26E	23	Aliquot NENW	32.121434	-104.265875	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 94076	3300			Y
KOP Leg #1	100	FNL	330	FWL	25S	26E	23	Aliquot NWN W	32.122279	-104.270945	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 94076	-3760	7237	7060	N
PPP Leg #1-1	100	FNL	330	FWL	25S	26E	23	Aliquot NWN W	32.122279	-104.270945	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 94076	-3760	7237	7060	N

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	2640	FNL	330	FWL	25S	26E	23	Aliquot NWS W	32.115299	-104.270923	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 19423	-4334	8357	7634	Y
PPP Leg #1-3	0	FNL	330	FWL	25S	26E	26	Aliquot NWN W	32.108042	-104.2709	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	-4334	8607	7634	N
PPP Leg #1-4	1320	FNL	330	FWL	25S	26E	26	Aliquot SWN W	32.104414	-104.270942	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 94076	-4334	12817	7634	Y
PPP Leg #1-5	2644	FNL	330	FWL	25S	26E	26	Aliquot NWS W	32.100774	-104.270984	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 94076	-4334	15427	7634	Y
PPP Leg #1-6	0	FNL	330	FWL	25S	26E	35	Aliquot NWN W	32.093534	-104.271074	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 26870	-4334	18065	7634	Y
EXIT Leg #1	100	FSL	330	FWL	25S	26E	35	Aliquot SWS W	32.079303	-104.271291	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 26870	-4334	23236	7634	Y
BHL Leg #1	100	FSL	330	FWL	25S	26E	35	Aliquot SWS W	32.079303	-104.271291	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 26870	-4334	23236	7634	Y

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
		Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code 97916	Pool Name Wildcat G-04 S252623M; BONE SPRING
Property Code	Property Name PINTAIL 23-26-35 FEDERAL COM	Well Number 12H
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Ground Level Elevation 3,300.5'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
C	23	25S	26E		424 NORTH	1,919 WEST	32.121434°	-104.265811°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	35	25S	26E		100 SOUTH	330 WEST	32.079303°	-104.271291°	EDDY

Dedicated Acres 960	Infill or Defining Well Infill Well	Defining Well API Pintail 23-26-35 Fed Com16H	Overlapping Spacing Unit (Y/N) Y	Consolidation Code F
Order Numbers. Pending			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	23	25S	26E		100 NORTH	330 WEST	32.122279°	-104.270945°	EDDY


First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	23	25S	26E		100 NORTH	330 WEST	32.122279°	-104.270945°	EDDY

Last Take Point (LTP)

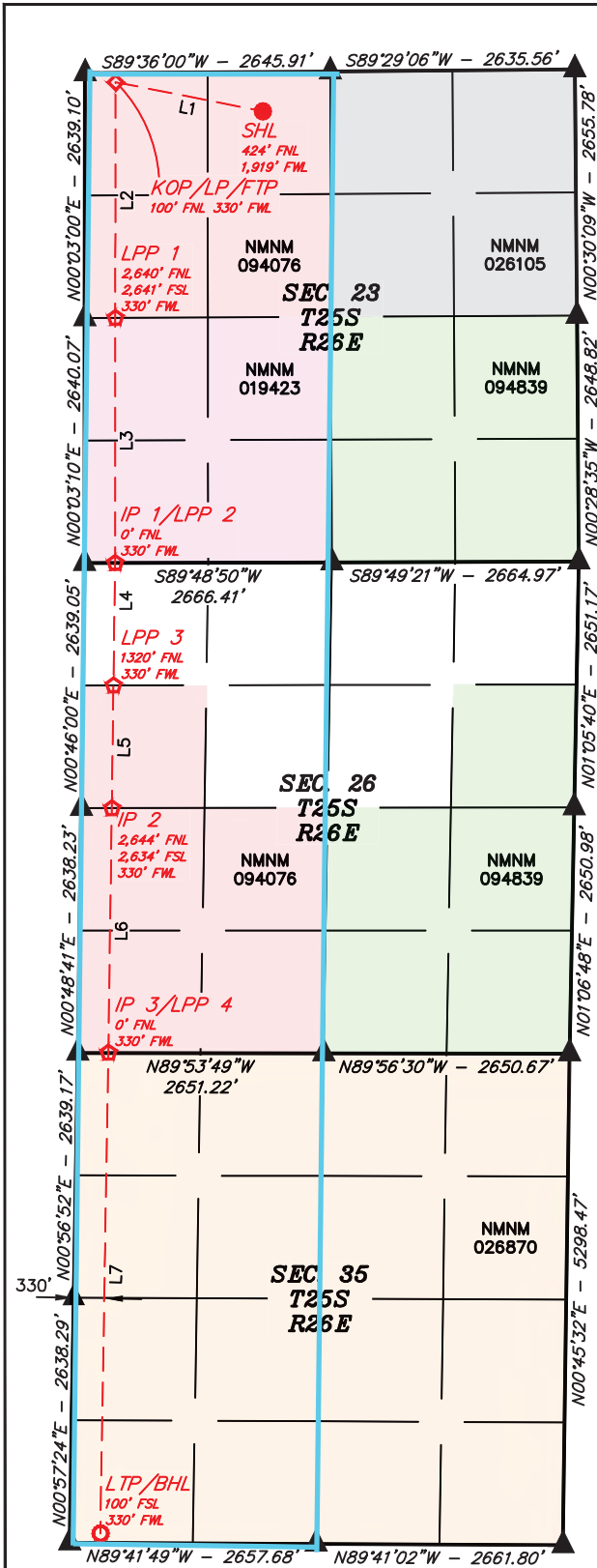
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	35	25S	26E		100 SOUTH	330 WEST	32.079303°	-104.271291°	EDDY

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3,300.5'
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<p>OPERATOR CERTIFICATIONS</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p> <p><i>Crystal Denson</i> 1/6/2026</p>	<p>SURVEYOR CERTIFICATIONS</p> <p><i>I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: center;">  </div>
Signature Date Crystal Denson Printed Name Crystal.Denson@coterra.com Email Address	Signature and Seal of Professional Surveyor 23782 October 8, 2025 Certificate Number Date of Survey

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name PINTAIL 23-26-35 FEDERAL COM	Well Number 12H	Drawn By L.T.T. 10-23-25	Revised By
---	--------------------	-----------------------------	------------



- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
- ◇ = LEASE PENETRATION POINT/INFLECTION POINT
- = LAST TAKE POINT/BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas represent Federal oil and gas leases.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N78°51'21"W	1619.44'
L2	S00°03'05"W	2539.81'
L3	S00°03'05"W	2640.58'
L4	S00°45'57"W	1319.91'
L5	S00°45'57"W	1324.76'
L6	S00°48'41"W	2634.28'
L7	S00°57'07"W	5178.61'

NAD 83 (SURFACE HOLE LOCATION)	LATITUDE = 32°07'17.16" (32.121434°)
	LONGITUDE = -104°15'56.92" (-104.265811°)
NAD 27 (SURFACE HOLE LOCATION)	LATITUDE = 32°07'16.73" (32.121314°)
	LONGITUDE = -104°15'55.13" (-104.265313°)
STATE PLANE NAD 83 (N.M. EAST)	N: 407920.44' E: 562241.12'
STATE PLANE NAD 27 (N.M. EAST)	N: 407863.30' E: 521058.19'
NAD 83 (KOP/LP/FTP)	LATITUDE = 32°07'20.20" (32.122279°)
	LONGITUDE = -104°16'15.40" (-104.270945°)
NAD 27 (KOP/LP/FTP)	LATITUDE = 32°07'19.77" (32.122159°)
	LONGITUDE = -104°16'13.61" (-104.270448°)
STATE PLANE NAD 83 (N.M. EAST)	N: 408226.73' E: 560651.30'
STATE PLANE NAD 27 (N.M. EAST)	N: 408169.62' E: 519468.39'
NAD 83 (LEASE PENETRATION POINT 1)	LATITUDE = 32°06'55.08" (32.115299°)
	LONGITUDE = -104°16'15.32" (-104.270923°)
NAD 27 (LEASE PENETRATION POINT 1)	LATITUDE = 32°06'54.64" (32.115179°)
	LONGITUDE = -104°16'13.53" (-104.270426°)
STATE PLANE NAD 83 (N.M. EAST)	N: 405687.54' E: 560659.63'
STATE PLANE NAD 27 (N.M. EAST)	N: 405630.47' E: 519476.67'
NAD 83 (IP 1/LPP 2)	LATITUDE = 32°06'28.95" (32.108042°)
	LONGITUDE = -104°16'15.24" (-104.270900°)
NAD 27 (IP 1/LPP 2)	LATITUDE = 32°06'28.52" (32.107922°)
	LONGITUDE = -104°16'13.45" (-104.270403°)
STATE PLANE NAD 83 (N.M. EAST)	N: 403047.60' E: 560668.28'
STATE PLANE NAD 27 (N.M. EAST)	N: 402990.58' E: 519485.29'
NAD 83 (LEASE PENETRATION POINT 3)	LATITUDE = 32°06'15.89" (32.104414°)
	LONGITUDE = -104°16'15.39" (-104.270942°)
NAD 27 (LEASE PENETRATION POINT 3)	LATITUDE = 32°06'15.46" (32.104294°)
	LONGITUDE = -104°16'13.60" (-104.270444°)
STATE PLANE NAD 83 (N.M. EAST)	N: 401728.07' E: 560656.15'
STATE PLANE NAD 27 (N.M. EAST)	N: 401671.07' E: 519473.14'
NAD 83 (INFLECTION POINT 2)	LATITUDE = 32°06'02.79" (32.100774°)
	LONGITUDE = -104°16'15.54" (-104.270984°)
NAD 27 (INFLECTION POINT 2)	LATITUDE = 32°06'02.35" (32.100654°)
	LONGITUDE = -104°16'13.75" (-104.270486°)
STATE PLANE NAD 83 (N.M. EAST)	N: 400403.67' E: 560643.98'
STATE PLANE NAD 27 (N.M. EAST)	N: 400346.70' E: 519460.95'
NAD 83 (IP 3/LPP 4)	LATITUDE = 32°05'36.72" (32.093534°)
	LONGITUDE = -104°16'15.86" (-104.271074°)
NAD 27 (IP 3/LPP 4)	LATITUDE = 32°05'36.29" (32.093414°)
	LONGITUDE = -104°16'14.07" (-104.270576°)
STATE PLANE NAD 83 (N.M. EAST)	N: 397770.16' E: 560617.68'
STATE PLANE NAD 27 (N.M. EAST)	N: 397713.23' E: 519434.61'
NAD 83 (LTP/BHL)	LATITUDE = 32°04'45.49" (32.079303°)
	LONGITUDE = -104°16'16.65" (-104.271291°)
NAD 27 (LTP/BHL)	LATITUDE = 32°04'45.06" (32.079183°)
	LONGITUDE = -104°16'14.86" (-104.270794°)
STATE PLANE NAD 83 (N.M. EAST)	N: 392593.19' E: 560553.25'
STATE PLANE NAD 27 (N.M. EAST)	N: 392536.36' E: 519370.10'





U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

03/18/2026

APD ID: 10400109580

Submission Date: 01/19/2026

Highlighted data reflects the most recent changes

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
17672259	RUSTLER	-1575	438	438	ANHYDRITE, SANDSTONE	USEABLE WATER	N
17672260	TOP SALT	-2658	1083	1083	ANHYDRITE	NONE	N
17672261	BASE OF SALT	-3249	1674	1674	ANHYDRITE	NONE	N
17672262	BASAL ANHYDRITE	-3461	1886	1886	ANHYDRITE	NONE	N
17672263	LAMAR	-3475	1900	1900	SANDSTONE	NONE	N
17672264	BELL CANYON	-3598	2023	2023	SANDSTONE	NONE	N
17672265	CHERRY CANYON	-4274	2699	2699	SANDSTONE	NONE	N
17672266	BRUSHY CANYON	-5385	3810	3810	SANDSTONE	NONE	N
17672267	BONE SPRING LIME	-7068	5493	5493	LIMESTONE	NONE	N
17672269	BONE SPRING 1ST	-7953	6378	6378	SANDSTONE	NATURAL GAS, OIL	Y
17672270	BONE SPRING 2ND	-8124	6549	6549	SHALE	NATURAL GAS, OIL	Y
17672271	BONE SPRING 2ND	-8489	6914	6914	SANDSTONE	NATURAL GAS, OIL	Y
17672272	BONE SPRING 3RD	-8847	7272	7272	SANDSTONE	NATURAL GAS, OIL	Y
17672258	BONE SPRING 3RD	-9219	7644	7644	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Pressure Rating (PSI): 10M

Rating Depth: 23235

Equipment: A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

Requesting Variance? YES

Variance request: See attached.

Testing Procedure: A multi-bowl wellhead will be utilized and will be tested per 43 CFR 3172 after the installation on the surface casing. The testing interval shall be for 30 days. Whenever any seal subject to pressure is broken, a full BOPE test shall be performed.

Choke Diagram Attachment:

COTERRA_10M_MBU_3T_CFL_13.38_X_9.58_X_5.5_HBE1215DQ_20260107134050.pdf

CHOKE_HOSE_M15486_20260107134051.pdf

10M_BOPE_BLM_SUBMISSION_REV.0_20260107134051.pdf

COTERRA_10K_PROD_TREE_20260107134051.pdf

BOP Diagram Attachment:

10M_BOP_DIAGRAM_20260107133939.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	650	0	650	3300	2650	650	H-40	48	ST&C	2.63	6.14	BUOY	10.3 2	BUOY	10.3 2
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	1900	0	1900	3288	1400	1900	J-55	36	LT&C	2.04	3.56	BUOY	6.62	BUOY	6.62
3	PRODUCTION	7.875	5.5	NEW	API	N	0	23235	0	7237	3288	-3937	23235	P-110	20	BUTT	2.94	3.28	BUOY	80.7 3	BUOY	80.7 3

Casing Attachments

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pintail_12H_Casing_Assumptions_20260114151955.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	350	212	1.72	13.5	365	38	Class C	Bentonite
SURFACE	Tail		350	650	195	1.34	14.8	261	38	Class C	LCM
INTERMEDIATE	Lead		0	1600	348	1.88	12.9	654	54	35:65 Poz C	Salt + Bentonite
INTERMEDIATE	Tail		1600	1900	111	1.34	14.8	150	54	Class C	LCM
PRODUCTION	Lead		1700	2181 5	522	3.64	10.3	1900	25	Tuned Light	LCM
PRODUCTION	Tail		2181 5	2281 5	3200	1.3	14.2	4160	25	50:50 Poz C	Salt + Bentonite + Fluid Loss + Dispersant + SMS

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	650	OTHER : Fresh water	7.83	8.33							
650	1900	OTHER : Brine water	9.5	10							

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1900	2281 5	OIL-BASED MUD	9	9.5							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

No logs planned, this is an offset well. Logs will be run on the 19H

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3771

Anticipated Surface Pressure: 2091

Anticipated Bottom Hole Temperature(F): 149

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_PLAN_REV.0_20260108072231.pdf

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

WELL_CONTROL_PLAN_REV.0_20260108072349.pdf

Pintail_23_26_35_Federal_Com_12H_Plan__1_20260116133508.pdf

Pintail_23_26_35_Federal_Com_12H_Plan__1_Plot_20260116133509.pdf

Pintail_23_26_35_Federal_Com_12H_Plan__1_AC_Report_20260116133509.pdf

Pintail_12H_Drilling_Plan_New_Mexico_20260306093008.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PINTAIL_23_26_35_FED_COM_Rig_Layout_Plat_20260108100955.pdf

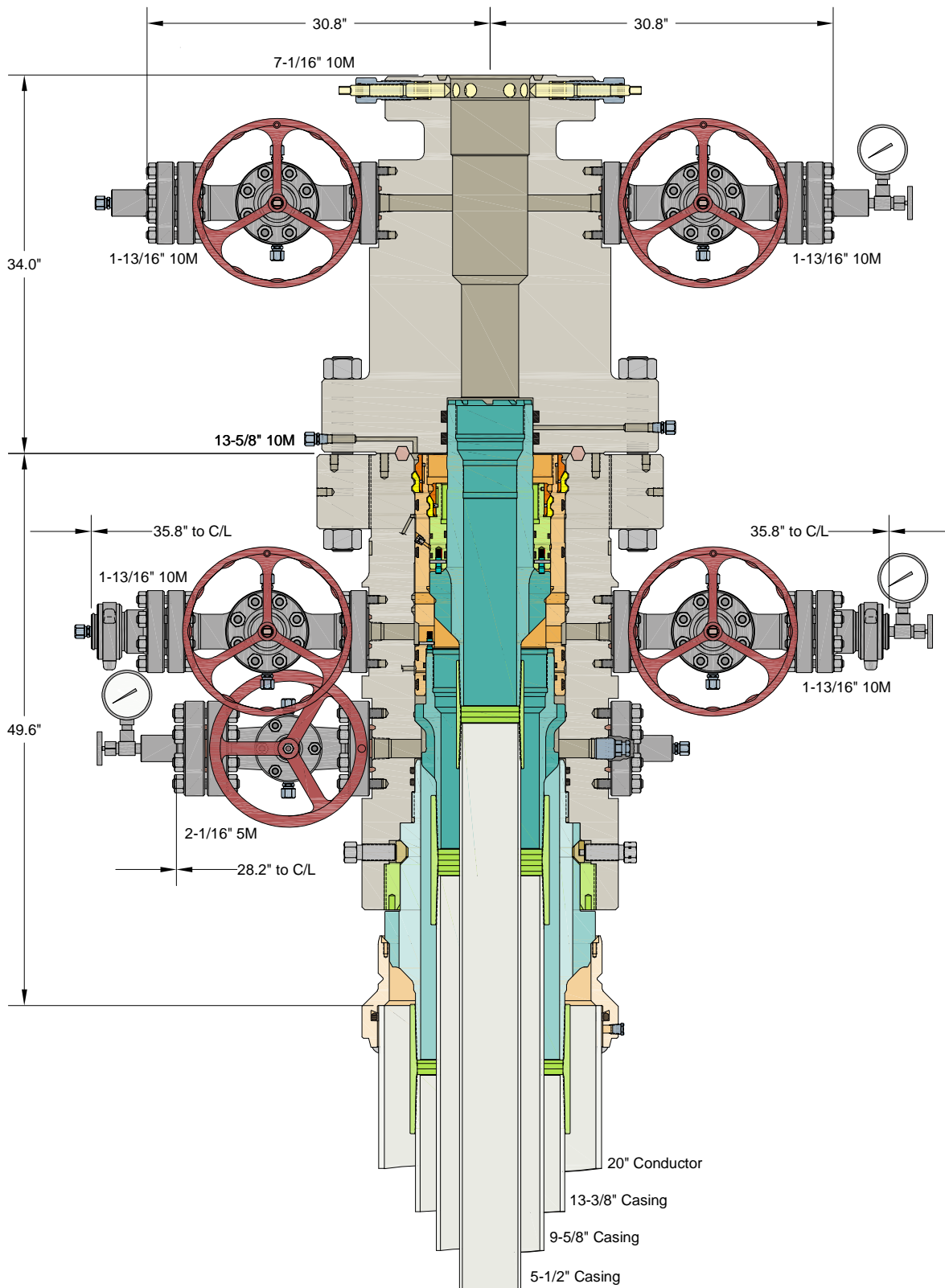
Pintail_12H_Natural_Gas_Plan_Cimarex_20260126200545.pdf

Other Variance request(s)?: Y

Other Variance attachment:

CHOKE_HOSE_M15486_20260108101031.pdf

NEW_MEXICO_STANDARD_VARIANCES_REV.1_20260108101040.pdf



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

20" x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL Wellhead Sys.
With 13-5/8" 10M x 7-1/16" 10M CTH-DBLHPS Tubing Head
And 9-5/8" & 5-1/2" Fluted Mandrel Casing Hangers

DRAWN	VJK	01MAY24
APPRV		
DRAWING NO.	HBE0001215	



CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B

No: LT2024-156-001


Customer Name			
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×35ft (10.67m)	Quantity	1PCS
Serial Number	VTC-7660257	FSL	FSL3
customer number	PO890145-001	Standard	API Spec 16C 3 rd edition
Temperature Range	-29℃ ~+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition

Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition
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Remarks	16C-0403 
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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HYDROSTATIC TESTING REPORT

LTYT/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×35ft (10.67m)	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30

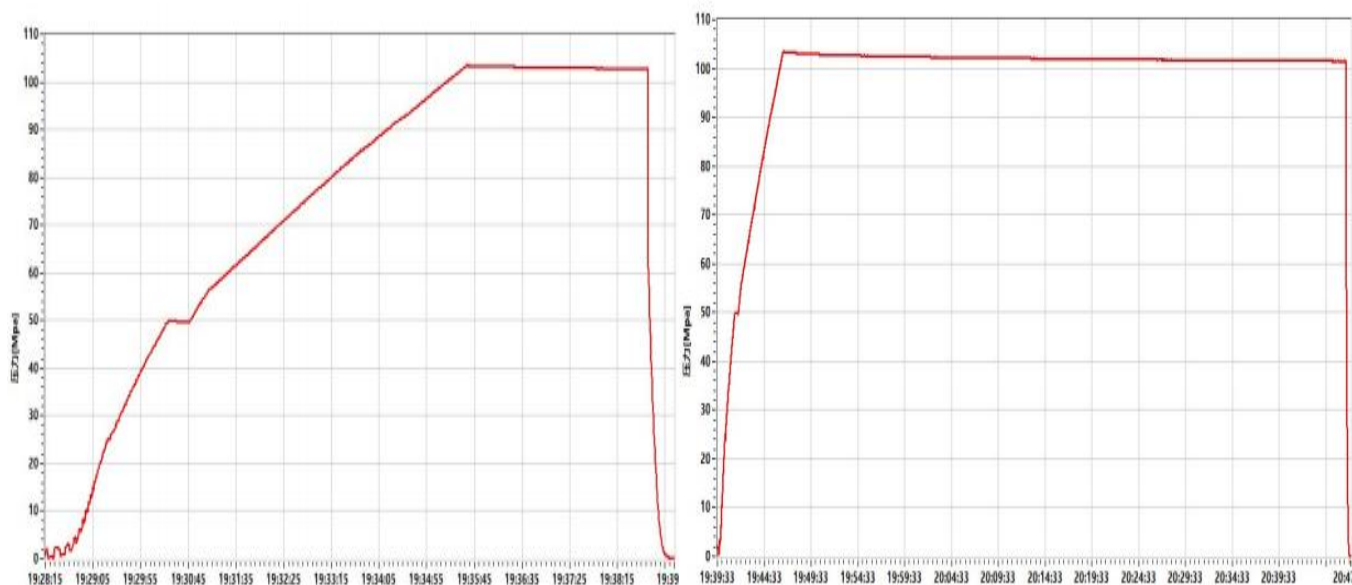
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than ±2%
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition		16C-0403	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD				
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CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×35ft (10.67m)

Serial Number: VTC-7660257

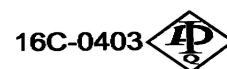
customer number: PO890145-001

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

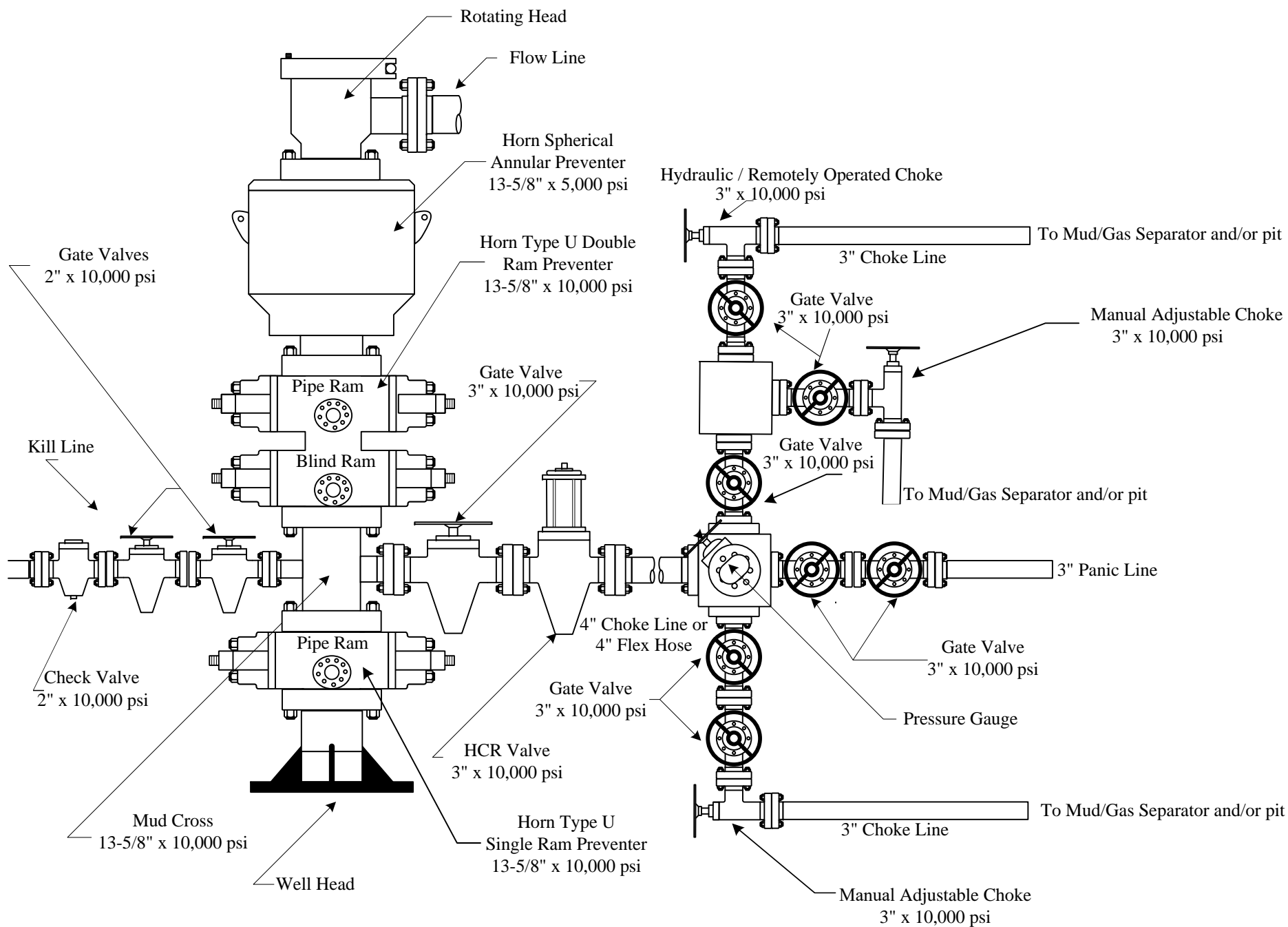
The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

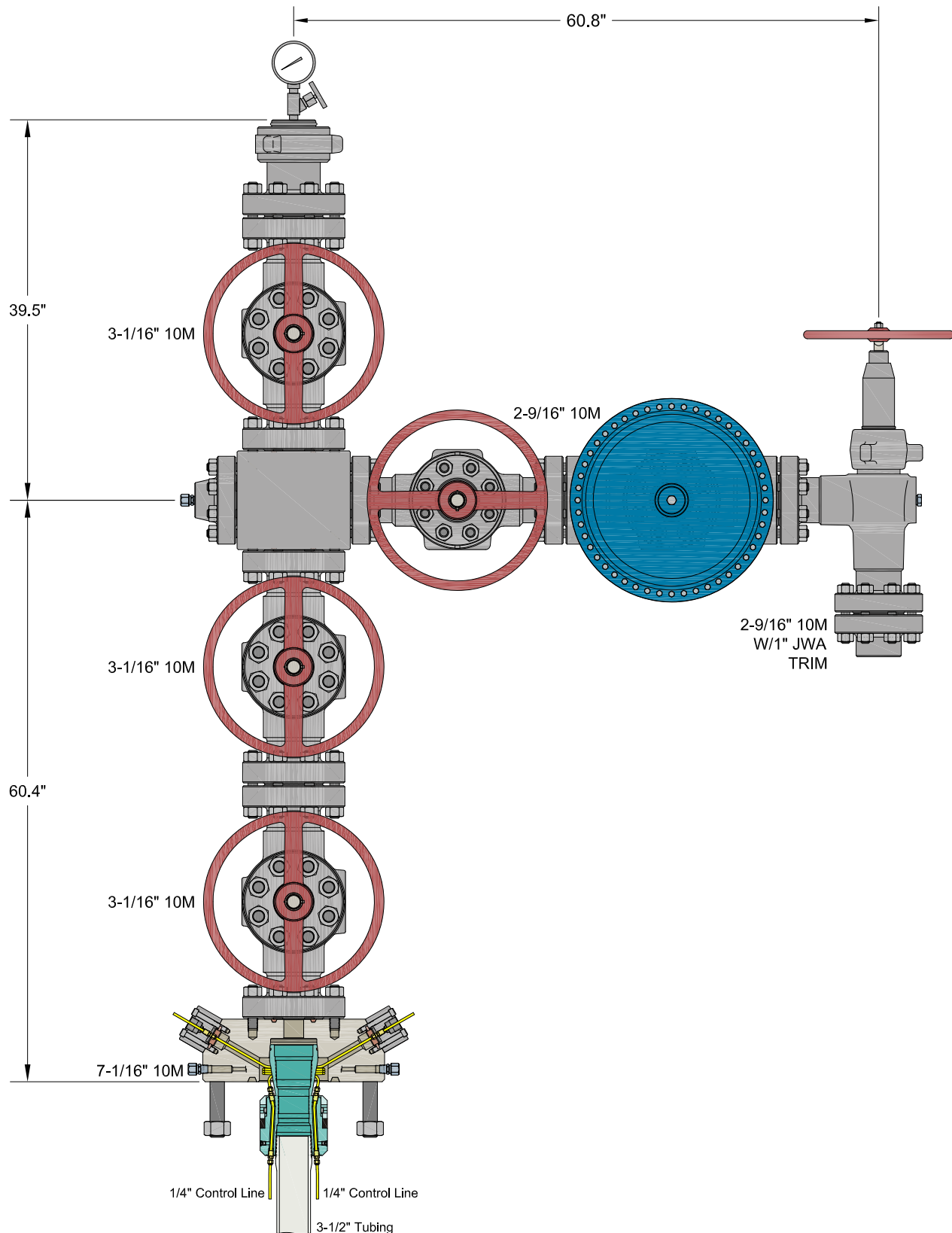
QC Manager: Jane C

Date:Sep 3, 2024



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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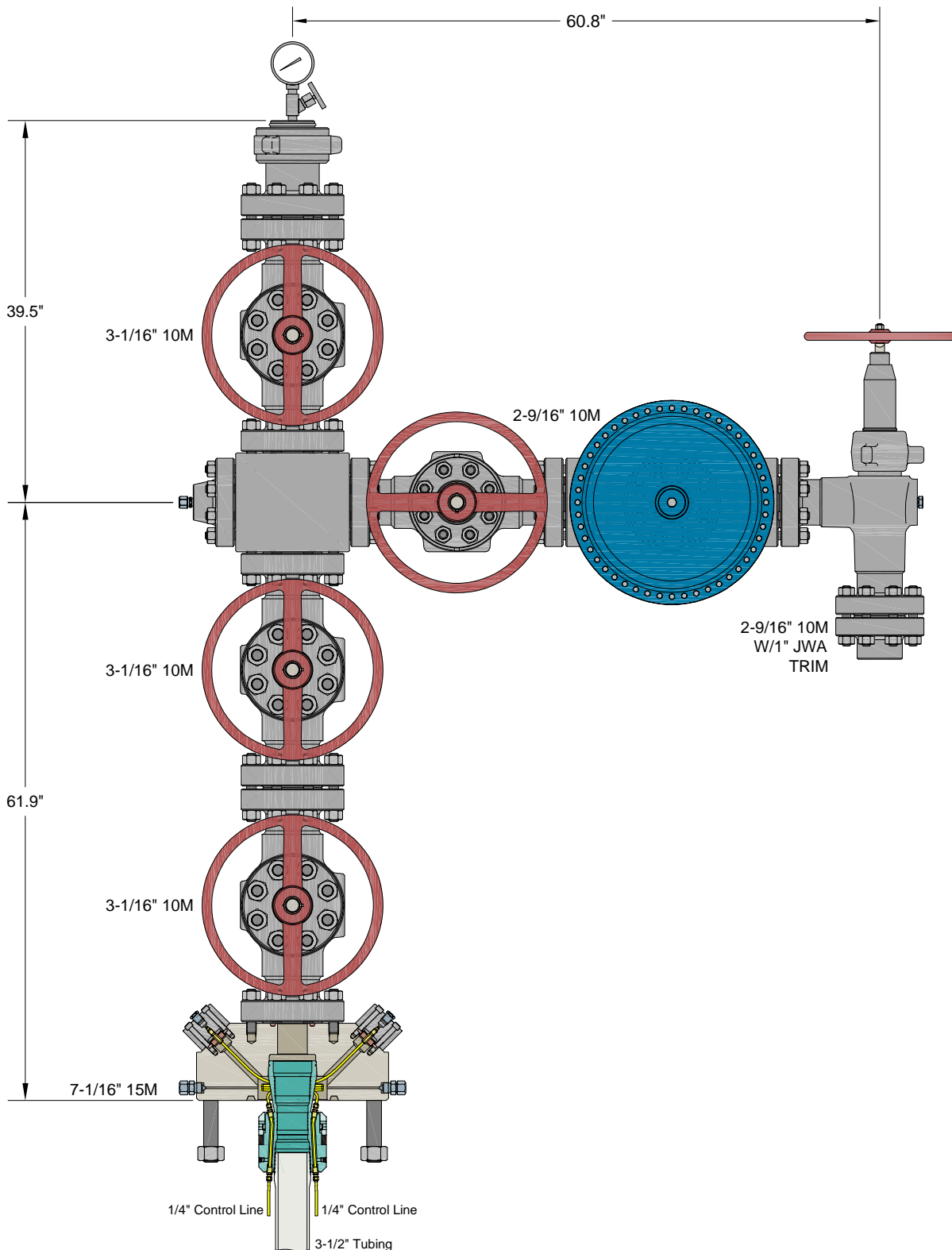
ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

7-1/16" 10M x 3-1/16" x 2-9/16" 10M Production Tree Assembly
With 7-1/16" 10M x 3-1/16" 10M T40-CCL Tubing Head Adapter
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger

DRAWN	VJK	05SEP23
APPRV		
DRAWING NO.	HBE0001018	



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

7-1/16" 15M x 3-1/16" x 2-9/16" 10M Production Tree Assembly
With 7-1/16" 15M x 3-1/16" 10M T40-CCL Tubing Head Adapter
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger

DRAWN	VJK	13DEC23
APPRV		
DRAWING NO.	HBE0001018	



Cactus

Quotation

Quote Number : HBE0001018

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Date: 09/08/2023
Valid For 30 Days

Page 1 of 5

Bill To: 7050

CIMAREX
ATTN: DAVID SHAW
202 S CHEYENNE AVENUE SUITE 1000
TULSA OK 74103
US

Ship To: 1016

2023 PRICING REVIEW
202 S Cheyenne Ave Ste 1000
Tulsa OK 74103-3001
US

Quantity Price Ext Price

CIMAREX

HOBBS, NM

PRODUCTION TREE ASSEMBLY
7-1/16" 10M X 3-1/16" 10M X 2-9/16" 10M
OPTIONAL 15M ADAPTER

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - \$49,338.02

CACTUS CONTACT:

RILEY STAFFORD / MIKE SPINKS
OFFICE: 405.708.7217 (RILEY) / 713.396.5762 (MIKE)
MOBILE: 405.445.2222 (RILEY) / 832.691.7724 (MIKE)
EMAIL: riley.stafford@cactuswellhead.com / mike.spinks@cactuswellhead.com

DUE TO VOLATILITY IN THE STEEL MARKET, PRICING FOR ITEMS MADE FROM NICKEL ALLOYS (EX. 410SS, 17-4PHSS, INCONEL, ETC.) WILL BE VALID FOR TWO WEEKS. CW WILL REVIEW AND ADJUST, IF NECESSARY, AT ORDER PLACEMENT.

PREMIUM THREADED CASING HANGERS/RUNNING TOOLS & CUSTOMER SPECIFIC EQUIPMENT ARE NON-CANCELABLE AND MAY REQUIRE A PURCHASE ORDER (PO) PRIOR TO MANUFACTURING.

SUPPLY CHAIN PRICING IS BASED UPON A 135 DAY DELIVERY ARO. EXPEDITED PRICING CAN BE PROVIDED UPON REQUEST. PRICES ARE F.O.B. CACTUS BOSSIER CITY, LA. THE FOLLOWING QUOTATION DOES NOT INCLUDE APPLICABLE MILEAGE AND SERVICE CHARGES THAT MAY BE CHARGED AT TIME OF INVOICING.



Quotation

Quote Number : HBE0001018

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Date: 09/08/2023

Valid For 30 Days

Page 2 of 5

		Quantity	Price	Ext Price
PRODUCTION TREE ASSEMBLY				
1	124314P2 ADPT,TBGHD,CW,T40-CCL,7-1/16 10M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 LP INLETS,10000 PSI MAX WP,TEMP PU,MATL EE,PSL2,PR2	1.00	4,830.00	4,830.00
2	120242MV VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)	1.00	4,343.00	4,343.00
3	120242MV VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)	1.00	4,343.00	4,343.00
4	128365 CRSS,STD,AOZE,3-1/16 10M X 2-9/16 10M,6A-LU-EE-3	1.00	2,650.00	2,650.00
5	120242MV VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)	1.00	4,343.00	4,343.00
6	142800 TREETCAP,NEWAY,BHTA,B15A,3-1/16 10M X 3-1/2 EU ILT,W/1/2 NPT & 3.06 MIN BORE,MONOGRAMMED,TEMP PU,MATL EE,PSL2	1.00	1,270.00	1,270.00
7	BX154 RING GASKET,BX154,3-1/16 10/15/20M	5.00	10.44	52.20
8	780077-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-8UNC X 7,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING	16.00	19.83	317.28
9	132879 FLG,BLIND,AOZE,3-1/16 10M X 1/2 NPT,W/HUB,TEMP LU,MATL EE,PSL3	1.00	495.00	495.00
10	100048 FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING	1.00	59.74	59.74
11	115900MV VLV,CW,SB100,2-9/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL2 PR2) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)	1.00	3,285.00	3,285.00
12	128567 VLV/ACT,OMNI,FS-R,2-9/16 10M FE EE HF C/W MODEL DX-18 DIAPHRAGM PNEUMATIC ACTUATOR, FORGED BODY, REVERSE ACTING SLAB GATE, FLOATING SEATS & DIRECTIONAL FLOW BODY BUSHING (FLOW FROM RIGHT TO LEFT): MAT'L CLASS EE, HARDFACE TRIM, TEMP PU (-20 TO 250 F), PSL-2, PR-2; ACTUATOR: MATERIAL CLASS BB, TEMP P (-20F TO 180F) PR-2 (FC TYPE) W/MANUAL OVERRIDE,ACTUATOR REQUIRES 112 PSI TO OPEN AT FULL 10,000 PSI	1.00	8,292.00	8,292.00
13	130652 CHOKE,ADJ,HOE,H2,2-9/16 10M FE X FE ALLOY BDY,3" NOMINAL,W/ 2" SSTC TRIM,H2S SERVICE,API MONOGRAMMED,PSL-2 PR-2 TEMP-PU MATL-EE-1.5	1.00	7,500.00	7,500.00
14	120734 FLG,COMP,AOZE,2-9/16 10M X 2-7/8 EU,5000 PSI MAX WP,TEMP LU,PSL3,PR1	1.00	399.00	399.00



Cactus

Quotation

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Hobbs, NM
 4120 W Carlsbad Hwy
 Hobbs NM 88240
 Phone: 817-682-8336

Date: 09/08/2023
 Valid For 30 Days

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		Quantity	Price	Ext Price
15	BX153 RING GASKET,BX153,2-9/16 10/15/20M	5.00	11.54	57.70
16	780067-20E1 STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING	24.00	14.70	352.80
17	135166 TBGHGR,CW,T40-CCL,7-1/16 X 3-1/2 EU API MOD BOX BTM X 3-1/2 EU BOX TOP,W/3 HBPV THD,W/ TWO 1/4 CCL & DOVETAIL SEAL,CF 124316P2,10000 PSI MAX WP,17-4PH SS,TEMP PU,MATL FF-0,5,PSL2,PR2	1.00	4,490.00	4,490.00
18	BX156 RING GASKET,BX156,7-1/16 10/15/20M	1.00	62.48	62.48
19	NVS NEEDLE VALVE,MFS,1/2 NPT MXF,10M PSI WP,CARBON STEEL BODY, 304/316SS STEM, TFE PACKING (NON-NACE)	1.00	61.16	61.16
20	PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT	1.00	58.24	58.24
21	PRO Prorata Freight	0.75	2,768.56	2,076.42
				49,338.02

OPTIONAL 15M ADAPTER

22	124999P2 ADPT,TBGHD,CW,T40-CCL,7-1/16 15M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 NPT INLET,10000 PSI MAX WP,TEMP PU,MAT'L EE,PSL2,PR2	0.00	7,423.00	0.00
				0.00

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD LLC

For Acceptance of this Quotation
 Please Contact Ph: 713-626-8800
 sales@cactuswellhead.com

Matl:	47,261.60
Labor:	0.00
Misc:	2,076.42
Sales Tax:	0.00
Total:	49,338.02



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CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

1. **ACCEPTANCE:** Acceptance of Cactus Wellhead, LLC (herein: Company) Purchase Terms and Conditions (herein: CACTUS Purchase Terms) shall be deemed effective upon shipment of the Products and/or rendering of Services which are the subject of an order by Customer (defined as the party purchasing CACTUS Products and or Services referred on the invoice). Any proposal made by Customer for additional or different terms and conditions or any attempt by Customer to vary in any degree any of the terms and conditions of CACTUS Purchase Terms is hereby rejected.
2. **PRICING.** Each Product and Service shall be invoiced at (and Customer shall pay) the respective price shown on the reverse side hereof, or if no price is shown on the reverse side hereof, at the price shown in the current price list of Company. In addition, Customer shall pay any and all additional charges for mileage, transportation, freight, packing and other related charges, as well as any federal, state or local tax, excise, or charge applicable on the sale, transportation, or use of Products and Services, unless otherwise specified.
3. **TERMS OF PAYMENT.** Customer agrees to pay Company any and all payments due on or before thirty (30) days from invoice date at the designated address of Company. Amounts unpaid after such thirty (30) day period shall bear interest at the lesser of (i) one and one-half percent (1½%) per month or (ii) the maximum rate allowed by law. Customer shall also pay any and all of Company's attorney's fees and court costs if any amounts hereunder are collected by an attorney or through legal proceedings. Company reserves the right, among other remedies, either to terminate this agreement or to suspend further deliveries upon failure of Customer to make any payment as provided herein.
4. **LIMITED WARRANTY.** COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS FOR PURPOSE, DESCRIPTION, QUALITY, PRODUCTIVENESS, ACCURACY OR ANY OTHER MATTER WITH RESPECT TO PRODUCTS OR SERVICES, ALL SUCH WARRANTIES BEING HEREBY SPECIFICALLY AND EXPRESSLY DISCLAIMED BY COMPANY. COMPANY MAY OFFER TECHNICAL ADVICE OR ASSISTANCE WITH REGARD TO THE PRODUCTS AND SERVICES BASED ON LABORATORY AND/OR FIELD EXPERIENCE AND CUSTOMER UNDERSTANDS AND AGREES THAT SUCH ADVICE REPRESENTS ONLY GOOD FAITH OPINIONS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE. THE SOLE AND EXPRESS WARRANTY PROVIDED BY COMPANY IS TO WARRANT THAT THE PRODUCTS SOLD AS LISTED ON THE REVERSE SIDE HEREOF COMPLY WITH COMPANY'S SOLE SPECIFICATION AT THE DATE AND TIME OF MANUFACTURE. COMPANY MAKES NO WARRANTY THAT SUCH PRODUCTS SHALL MEET SUCH SPECIFICATION AT ANY TIME AFTER SHIPMENT OF PRODUCTS. USE OF SUCH PRODUCTS IS SPECIFICALLY NOT WARRANTED.
5. **REMEDY.** The exclusive remedy for this warranty for Products shall be limited to, in Company's sole discretion and judgment, the replacement of defective part(s), F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer), or repair of defective part(s). The exclusive remedy for this warranty for Services shall be limited to the repeat of Services performed F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer). Any such repeat of Services or replacement or repair of Products shall not include any materials not sold by Company hereunder, and specifically excludes any obligation by Company related to other property of the Customer or any property of third parties. Provided, however, Company may in its sole discretion, decide to instead give Customer credit memorandum for the amounts already paid by Customer to Company for such Product or Service. IN ANY EVENT AND NOTWITHSTANDING THE LANGUAGE TO THE CONTRARY HEREIN, CUSTOMER ACKNOWLEDGES THAT ANY CLAIM IT MAY HAVE ARISING OUT OF OR IN CONNECTION WITH ANY ORIGINAL PRODUCTS AND SERVICES, ANY REPLACEMENT PRODUCTS OR REPEAT OF SERVICES AND THESE CACTUS PURCHASE TERMS SHALL BE LIMITED TO AND NOT EXCEED THE AMOUNT CUSTOMER HAS ACTUALLY PAID TO COMPANY FOR SUCH PRODUCTS AND/OR SERVICES PURSUANT HERETO. If Customer fails to make any such claim within thirty (30) days after completion of Service or delivery of Products, Customer hereby waives (to the extent permitted by applicable law) any and all claims it may or does have with respect to such Products and Services. Unless Customer is an authorized reseller of Company, Company's liability in connection with Products and Services shall extend only to Customer. CUSTOMER HEREBY INDEMNIFIES AND HOLDS COMPANY (AND ITS AGENTS, REPRESENTATIVES, OFFICERS DIRECTORS AND EMPLOYEES) HARMLESS FOR ANY LOSS, EXPENSE OR DAMAGE (WHETHER OF CUSTOMER OR OF ANY THIRD PARTY) ARISING FROM OR IN CONNECTION WITH PRODUCTS AND SERVICES, INCLUDING WITHOUT LIMITATION ANY FAILURE OF SUCH PRODUCTS AND SERVICES TO CONFORM TO CUSTOMER'S ORDER OR SPECIFICATION OR ANY OTHER STANDARD, OR ANY NEGLIGENCE OR BREACH OF WARRANTY BY COMPANY WITH RESPECT TO ANYTHING DONE OR FAILED TO HAVE BEEN DONE BY COMPANY, IF AND TO THE EXTENT THAT SUCH LOSS, EXPENSE OR DAMAGE EXCEEDS THE AMOUNT CUSTOMER HAS ACTUALLY PAID COMPANY PURSUANT HERETO FOR SUCH PRODUCTS OR SERVICES.
6. **INSPECTION.** The results of any inspection or testing reported by the Company to Customer represents only good faith opinions and are not to be construed as warranties or guarantees of the quality, classification, merchantability, fitness for purpose, condition, or liability of any equipment or material that has been inspected or tested by the Company.
7. **INSURANCE.** Each party agrees to maintain comprehensive general liability insurance in the amount of \$1,000,000 each occurrence, \$2,000,000 general aggregate, and Workers Compensation insurance per statutory requirements providing coverage for the indemnity obligations in this agreement. The Company (and such of its affiliates as it shall designate) including their officers, directors, members, shareholders, partners, joint ventures, employees, agents and representatives shall be named as additional insureds under the policies of Customer on a primary basis to the extent of its indemnification obligations set forth in these CACTUS Purchase Terms, and the policies shall also provide a waiver of subrogation rights in favor of the Company (and such of its affiliates as it shall designate) and their officers, directors, members, shareholders, employees, agents and representatives. The provisions of this Section 7 shall apply and the obligation to maintain insurance of each party in the coverages and amounts set forth herein shall remain in force regardless and independent of the validity or enforceability of the indemnity provisions of Section 8, below; the obligation to obtain insurance is a separate and independent obligation. If the insurance required herein is more or less than allowed by prevailing law, the indemnity obligations in Section 8 below shall be effective only to the maximum extent permitted under applicable law.
8. **INDEMNIFICATION.** The following indemnifications and releases of liability will apply to any Products or Services provided under this contract. COMPANY AND CUSTOMER EXPRESSLY AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE INDEMNITIES AND DISCLAIMERS OF WARRANTIES CONTAINED HEREIN ARE "CONSPICUOUS."
 - A. **Customer Indemnity Obligations.** Customer hereby releases Company from any liability for, and shall protect, defend, indemnify, and hold harmless Company, its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, insurers, and consultants (specifically excluding any member of Customer Group) of all of the foregoing, and its and their respective successors, heirs and assigns ("Company Group") from and against all costs (including the payment of reasonable attorneys' fees), losses, liabilities, demands, causes of action, damages, or claims of every type and character ("Claims"), arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of Customer its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, customers, insurers, invitees and consultants of all of the foregoing, and its and their respective successors, heirs and assigns ("Customer Group"), or (ii) loss of or damage to any property of any member of Customer Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.
 - B. **Company Indemnity Obligations.** Company hereby releases Customer from any liability for, and shall protect, defend, indemnify, and hold harmless Customer from and against all Claims arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of any member of Company Group, or (ii) loss of or damage to any property of any member of Company Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF CUSTOMER GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.
 - C. **Third Party Claims.** Notwithstanding the foregoing, to the extent of its negligence, Company and Customer shall each indemnify, defend and hold harmless from and against all Claims, of every type and character, which are asserted by third parties for bodily injury, death or loss or destruction of property or interests in property in any manner caused by, directly or indirectly resulting from, incident to, connected with or arising out of the work to be performed, Services to be rendered or Products or materials furnished to Customer. When personal injury, death or loss of or damage to property is the result of joint or concurrent negligence of Customer and Company, the indemnitor's duty of indemnification shall be in proportion to its allocable share of such negligence.
 - D. **Pollution.** Company agrees that it shall be totally responsible for, and shall protect, defend and indemnify, Customer for all losses, damages, claims, demands, costs, charges, and other expenses, including attorneys' fees, for any and all waste and/or hazardous substances which are in Company Group's exclusive possession and control and directly associated with Company Group's equipment and facilities, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF CUSTOMER GROUP. Customer shall assume all responsibility for, including control and removal of, and shall protect, defend and indemnify Company Group from and against all Claims arising directly or indirectly from all other pollution or contamination which may occur during the conduct of operations hereunder, including, but not limited to, that which may result from fire, blowout, cratering, seepage or any other uncontrolled flow of oil, gas, water or other substance, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF COMPANY GROUP.
 - E. **Wild Well.** Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group for any damages, expenses, losses, fines, penalties, costs, expert fees and attorneys' fees arising out of a fire, blow out, cratering, seepage or wild well, including regaining control thereof, debris removal and property restoration and remediation. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.
 - F. **Underground Damage.** Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group from and against any and all claims, liability and expenses resulting from operations related to the work under this agreement on account of injury to, destruction of, or loss or impairment of any property right in or to oil, gas or other mineral substance or water, if at the time of the act or omission causing such injury, destruction, loss or impairment said substance and not been reduced to physical possession above the surface of the earth, and for any loss or damage to any formation, strata, or reservoir beneath the surface of the earth. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.
 - G. The foregoing indemnities set forth in these CACTUS Purchase Terms are intended to be enforceable against the parties hereto in accordance with the express terms and scope hereof notwithstanding Texas' Express Negligence Rule or any similar directive that would prohibit or otherwise limit indemnities because of the negligence (whether sole, concurrent, active or passive, ordinary or gross) or other fault or strict liability of Company or Customer.
 - H. If a claim is asserted against one of the parties to this agreement which may give rise to a claim for indemnity against the other party hereto, the party against whom the claim is first asserted must notify the potential indemnitor in writing and give the potential indemnitor the right to defend or assist in the defense of the claim.
9. **RISK OF LOSS.**
 - A. Title and risk of loss shall pass to Customer upon delivery as specified in Article 11. Customer's receipt of any material delivered hereunder shall be an unqualified acceptance of, and a waiver by Customer of any and all claims with respect to, such material unless Customer gives Company written notice of claim within thirty (30) days after such receipt. Notwithstanding the foregoing, installation or use of materials or equipment shall unequivocally constitute irrevocable acceptance of said materials. Customer assumes all risk and liability for the results obtained by the use of any material or Products delivered hereunder in work performed by on behalf of Customer or in combination with other or substances. No claim of any kind, whether as to material delivered or for non-delivery of material, and whether or not based on negligence, shall be greater in amount than the purchase price of the


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material in respect of which such claim is made.

B. For Services, Company shall not be liable for loss or deterioration of any equipment and material of Customer under Company's control or stored on Company's premises after Company has completed its work if such loss or deterioration results from atmospheric condition, Act of God or other occurrence not within the reasonable control of Company.

10. **TERMINATION.** Company reserves the right to terminate the order at issue, or any part hereof, solely for its convenience at any time without cause with notice to Customer. Company shall have the right to cancel any unfilled order without notice to Customer in the event that Customer becomes insolvent, adjudicated bankrupt, petitions for or consents to any relief under any bankruptcy reorganization statute, violates a term of these CACTUS Purchase Terms, or is unable to meet its financial obligations in the normal course of business. In the event of such termination, Company shall immediately stop all work hereunder. Prior to delivery, Customer may terminate this order without cause upon thirty (30) day notice in writing to Company. In the event of such termination, Company at its sole option shall cease work up to thirty (30) days after such notice. Upon the cessation of work, Customer agrees to pay Company a reasonable termination charge consisting of a percentage of the invoice price, such percentage to reflect the value of the Products, Services or work in progress completed upon the cessation of work. Customer shall also pay promptly to Company any costs incurred due to paying and settling claims of Company's vendors or subcontractors arising out of the termination of the order by Customer.

11. **DELIVERY.** Unless different terms are provided on the face of this order, all items are sold FOB Company's manufacturing facility in Bossier City, LA., and Customer shall bear the cost of transportation to any other named destination. Upon notification of Company of delivery, Customer shall become liable and shall bear all risk of loss associated with the Products at issues regardless of whether the Products are at a location controlled by Company and whether or not caused by the negligence of Company. In the case of Customer pick-up, the truck furnished by Customer is the destination and Company's obligations regarding shipments are fulfilled when the Products are loaded on the truck. Items to be shipped to any other destination outside of the United States are sold FOB port of shipment (Customer will deliver and bear the cost of transportation to the named port and will bear the cost of transportation thereafter to the final destination). The means of shipment and carrier to the point at which Company's liability for transportation costs ceases shall be chosen by Company. Excess packing, marking, shipping, and transportation charges resulting from compliance with Customer's request shall be for Customer's account. Unless otherwise agreed in writing, delivery time is not of the essence.

12. **RETURNS/REFUND.** Within ninety (90) days of delivery, Customer has the option to return any non-defective Products (any Products found to be defective will be subject to the warranty and remedies expressed in paragraphs four (4) and five (5) above). Customer shall bear all costs of shipment and/or transportation for such return and risk of loss for the returned Products shall remain with Customer until re-delivered to Company's Yard. Customer shall receive a full refund for any returns, less a twenty percent (20%) restocking fee. Company at all times reserves the right to designate certain Products as non-refundable in Company's Sales Quote or Sales Order. In addition, any made-to-order, special order, and/or Product manufactured to Customer specifications are NOT returnable.

13. **DELAYS.** If a specific shipping date is either not given or is estimated only, and is not promised on the face of this order or in a separate writing signed by Company, Company will not be responsible for delays in filling this order nor liable for any loss or damages resulting from such delays. If a specific shipping date is promised, Company will not be liable for delays resulting from causes beyond Company's control, including without limitation accidents to machinery, fire, flood, act of God or other casualty, vendor delays, labor disputes, labor shortages, lack of transportation facilities, priorities required by, requested by, or granted for the benefit of any governmental agency, or restrictions imposed by law or governmental regulation.

14. **LIMITATION OF DAMAGES.** Notwithstanding any other provision contained herein, Company shall not be liable to Customer Group or any third party for consequential (whether direct or indirect damages), indirect, incidental, special or punitive damages, howsoever arising, including, but not limited to loss of profits (whether direct or indirect damages), revenues, production or business opportunities, WHETHER OR NOT SUCH LOSSES ARE THE RESULT IN WHOLE OR IN PART FROM THE NEGLIGENCE (WHETHER SOLE, JOINT, CONCURRENT OR COMPARATIVE, ACTIVE OR PASSIVE, ORDINARY OR GROSS) OF COMPANY GROUP, OR ANY DEFECT IN THE PREMISES, PRE-EXISTING CONDITIONS, PATENT OR LATENT, BREACH OF STATUTORY DUTY, STRICT LIABILITY OR ANY OTHER THEORY OF LEGAL LIABILITY OF COMPANY GROUP (EXCLUDING ONLY LOSSES CAUSED BY THE WILLFUL MISCONDUCT OF COMPANY GROUP).

15. **SECURITY INTEREST.** Customer grants Company, and Company reserves, a security interest, covering all Customer's obligations under these terms (including any liability for breach of Customer's obligations), and applying to all of Customer's right, title, and interest in the Leased Equipment, together with all accessions thereto and any proceeds that may arise in connection with the sale or disposition thereof. Customer shall cooperate with Company in the filing of Financing Statements to perfect such security interest. Furthermore, Customer authorizes Company to execute and file Financing Statements without Customer's signature in any jurisdiction in which such procedure is authorized. Customer warrants, covenants and agrees that it will not, without prior written consent of Company, sell, contract to sell, lease, encumber, or dispose of the Leased Equipment or any interest in it until all obligations secured by this security interest have been fully satisfied.

16. **PATENT AND INTELLECTUAL PROPERTY.** The sale of any Products hereunder does not convey any intellectual property license by implication, estoppel or otherwise regarding the Products. Company retains the copyright in all documents, catalogs and plans supplied to Customer pursuant to or ancillary to the contract. Unless otherwise agreed in writing, Customer shall obtain no intellectual property interest in any Company Product.

17. **TAXES.** Unless otherwise specifically provided for herein, Customer shall be liable for all federal, state, or local taxes or import duties assessed by any governmental entity of any jurisdiction in connection with the Products or Services furnished hereunder.

18. **DECEPTIVE TRADE PRACTICES.** Customer acknowledges the application of Section 17.45(4) of the Texas Deceptive Trade Practices Act (Texas Business Commission Code §17.41 et. seq.) (the "Act") to any transaction contemplated hereby and represents that it is not a "consumer" for the purposes of the Act.

19. **NO WAIVER.** Failure to enforce any or all of the provisions in these CACTUS Purchase Terms in any particular instance shall not constitute or be deemed to constitute a waiver of or preclude subsequent enforcement of the same provision or any other provision of these CACTUS Purchase Terms. Should any provision of these CACTUS Purchase Terms be declared invalid or unenforceable all other provisions of these CACTUS Purchase Terms shall remain in full force and effect.

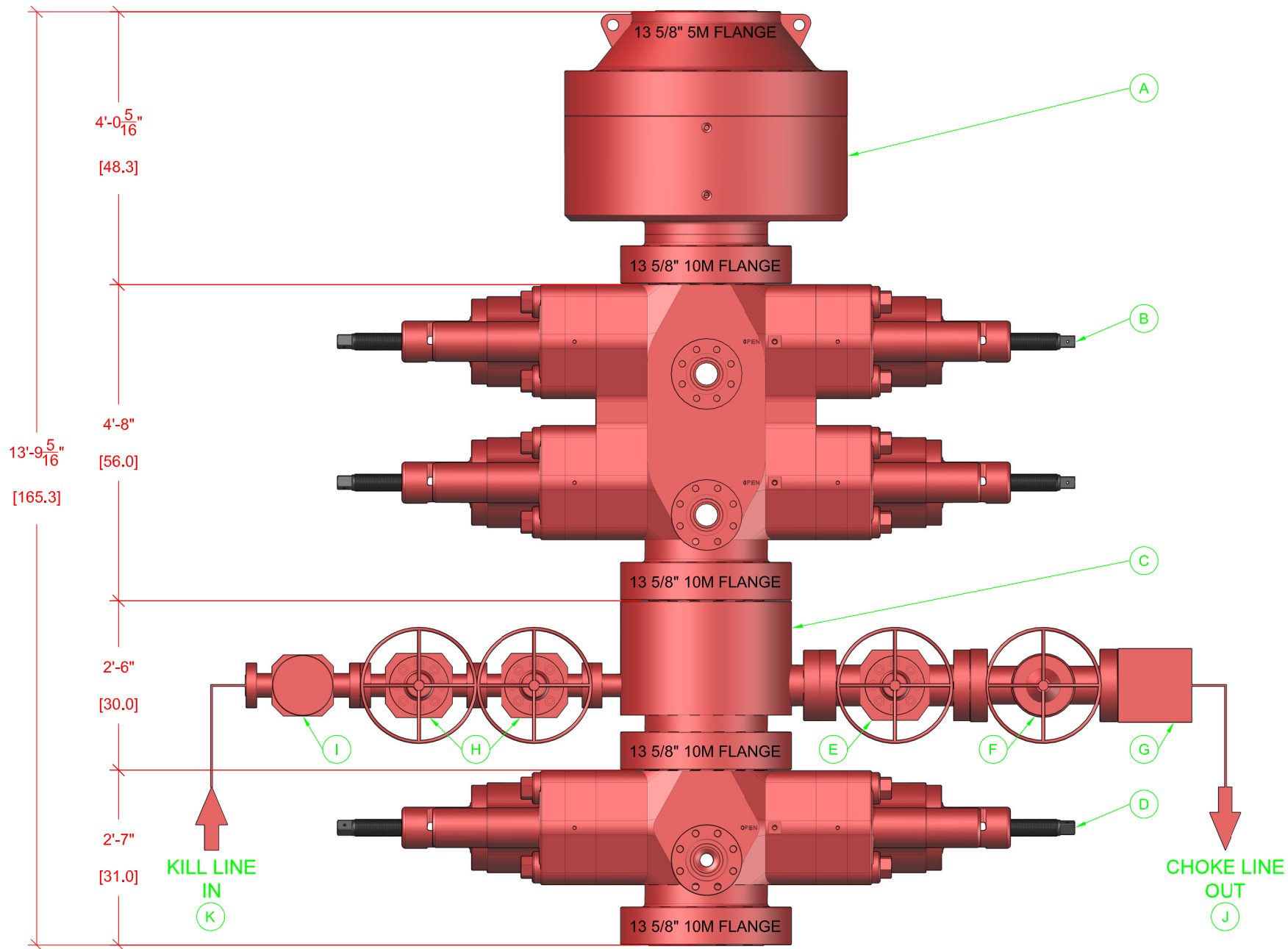
20. **CHOICE OF LAW.** THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS IN HARRIS COUNTY, TEXAS AND THE FEDERAL COURTS IN AND FOR THE SOUTHERN DISTRICT OF TEXAS SITTING IN HOUSTON, TEXAS IN CONNECTION WITH ANY DISPUTE ARISING UNDER THIS AGREEMENT OR ANY DOCUMENT OR INSTRUMENT ENTERED INTO IN CONNECTION HEREWITH.

21. **AUTHORITY.** Customer warrants and represents that the individual receiving this order at issue on behalf of Customer has the authority to enter into these CACTUS Purchase Terms on behalf of Customer, and that upon receipt these CACTUS Purchase Terms shall be binding upon Customer.

22. **FORCE MAJEURE.** If Company is unable to carry out its obligations hereunder by reason of force majeure, then upon Company's giving of notice and reasonably full particulars of such force majeure in writing to Customer, Company's obligations that are affected by force majeure shall be suspended during the continuance of the force majeure and Company shall not be liable to Customer for any damages incurred by the Customer as a result thereof.

23. **CONFIDENTIALITY.** Customer acknowledges the highly secret and valuable nature of all proprietary inventions, methods, processes, designs, know-how, and trade secrets embodied in the Company's equipment, Products and Services and its components (hereinafter referred to as "Confidential Data"). Accordingly, Customer agrees not to disclose or use any Confidential Data. Customer further agrees to take any and all necessary precautions to prevent disclosure of the Confidential Data associated with the Company's equipment, Products and Services and components thereof to persons other than those employees of Customer for whom such disclosure is necessary for performance of the work hereunder.

24. **COMPLIANCE.** Customer expressly agrees to comply with and abide by, all of the laws of the United States and of the State of Texas, including, but not limited to, OSHA, EPA and all rules and regulations now existing or that may be hereafter promulgated under and in accordance with any such law or laws, and hereby agrees to indemnify and hold Company harmless from any and all claims, demands, or damages incurred by Company arising from Customer's failure to comply with all laws and governmental regulations. The indemnities in this paragraph shall be in addition to any other indemnity obligations between Customer and Company, including any other indemnity obligations contained herein.



BOP EQUIPMENT INFORMATION

DESCRIPTION	MODEL	QTY	ITEM	DESCRIPTION	MODEL	QTY
ANNULAR BOP	13 5/8" 5M	1	G	STUDDED BLOCK	4 1/2" 10M	1
DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1	H	GATE VALE	2 1/2" 10M FC MANUAL	2
MUD CROSS	13 5/8" 10M	1	I	CHECK VALVE	2 1/2" 10M	1
SINGLE RAM BOP	13 5/8" 10M TYPE-U	1	J	CHOKE HOSE	4 1/2" 10M	1
GATE VALVE	4 1/2" 10M FC MANUAL	1	K	KILL HOSE	2 1/2" 10M	1
HCR VALVE	4 1/2" 10M HCR	1	L			

1. Geological Formations

TVD of target 7,634

Pilot Hole TD N/A

MD at TD 23,235

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	438	N/A	
Top of Salt	1083	N/A	
Base of Salt	1674	N/A	
Anhydrite	1886	N/A	
Lamar	1900	N/A	
Bell Canyon	2023	N/A	
Cherry Canyon	2699	N/A	
Brushy Canyon	3810	N/A	
Bone Spring Lime	5493	N/A	
Leonard Shale	5643	N/A	
1st Bone Spring Sand	6378	N/A	
2nd Bone Spring Shale	6549	N/A	
2nd Bone Spring Sand	6914	N/A	
3rd Bone Spring Carb	7272	N/A	
3rd Bone Spring Carb - Target	7644	N/A	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension		
17 1/2	0	650	650	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	2.63	6.14	10.32		
12 1/4	0	1900	1900	9-5/8"	36.00	J-55	LT&C	2.04	3.56	6.62		
7 7/8	0	7237	7237	5-1/2"	[REDACTED]							
7 7/8	7237	23235	7634	5-1/2"	20.00	P-110	BT&C	2.94	3.28	80.73		
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet		

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Coterra: H2S Plan



H2S Drilling Operations Plan

Training

All company and contract personnel admitted on location must be trained by a qualified H2S safety instructor to do the following:

1. Characteristics of H2S
2. Physical effects and hazards
3. Principle and operation of H2S detectors, warning system, and briefing areas
4. Evacuation procedure, routes and first aid
5. Proper use of safety equipment & life support systems
6. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

H2S Detection and Alarm Systems

1. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
2. An audio alarm system will be installed on the derrick floor and in the top doghouse

Windsock and/or wind streamers

1. Windsock at mudpit area should be high enough to be visible
2. Windsock on the rig floor and / or top of doghouse should be high enough to be visible

Condition Flags & Signs

1. Warning signs on access road to location
2. Flags are to be displayed on sign at the entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates

Coterra: H2S Plan

danger (H2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

Well Control Equipment

1. See the pressure control section of this submission.

Communication

1. While working under masks, chalkboards will be used for communication
2. Hand signals will be used where chalk board is inappropriate.
3. Two way radio will be used to communicate off location in case emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.

Drillstem Testing

1. No DSTs or cores are planned at this time
2. Drilling contractor supervisor will be required to be familiar with the effects that H2S has on tubular goods and other mechanical equipment.
3. If H2S is encountered, mud system will be altered if necessary to maintain control of the well. A mud gas separator will be brought into service along with H2S scavenger if necessary.

Coterra: H2S Plan

H2S Contingency Plan

Emergency Procedures

In the event of an H2S release, the first responder(s) must:

1. Isolate the area and prevent entry by other persons into the 100 PPM ROE.
2. Evacuate any public places encompassed by the 100 PPM ROE.
3. Be equipped with H2S monitors and air packs in order to control the release.
4. Use the buddy system
5. Take precautions to avoid personal injury during this operation
6. Contact operator and/or local officials to aid in operation. See list of emergency contacts attached.
7. Have received training the detection of H2S, measures for protection against the gas, and equipment used for protection and emergency response

Ignition of the Gas Source

1. Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Contacting Authorities

1. Coterra personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours.
2. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Coterra's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

Coterra: H2S Plan

Emergency Contacts

Coterra Energy

Charlie Pritchard: Drilling Operations Manager: 432 – 238 – 7084

Darrell Kelly: Vice President EHS: 281 – 589 – 5795

Third Party

PERMIAN REGION CONTACT NUMBERS					
CALL 911					
Air Ambulance Services					
Reeves County Medical - Pecos, TX		432-447-3551			
Aero Care - Midland, TX		800-627-2376			
Tri State Care Flight- Artesia, NM		800-800-0900			
Air Methods - Hobbs, NM		800-242-6199			
Fire / Police / Medical Care					
Sheriff's Office	Fire Departments		Hospital / Medical Care Facilities		
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kernit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzton			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crocket County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
Yoakum County	806-456-2377	Plains	806-456-2288		
Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811
Terrell County	432-345-2525	Sanderson			
Scurry County	325-573-3551	Snyder	325-573-3546	DM Cogdell Memorial	325-573-6374
Sterling County	325-378-4771	Sterling City			
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760
New Mexico					
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100
		Artesia	575-746-5050	Artesia Hospital	575-748-3333
Roosevelt County	575-356-4408				
Chaves County	575-624-7590				
Ground Ambulance Services					
Reeves County Medical		Pecos, TX		432-447-3551	

Coterra: Well Control Plan



Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

1. Drilling break or increase in penetration rate
2. Increase of flow
3. Pit gain
4. Flow without pumping
5. Circulating pressure decrease and/or spm increase
6. Increase in gas cutting at the shakers
7. Decrease in cuttings at shakers

While Tripping:

1. Hole not taking the proper fill on trip out of hole
2. Hole returns too much mud on trip in hole
3. Flow without pumping

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

A TIW valve in the open position must be on the rig floor at all times.

If rotating head is installed:

1. Perform flow check.
2. If well is flowing, divert flow down flow line and through separator, before returning across shakers.
3. Swap to 10 ppg brine and circulate around. Notify superintendent.

Coterra: Well Control Plan

4. If well becomes uncontrollable, close annular, which will open HCR to divert flow away from rig.

If rotating head is not installed:

1. Perform flow check.
2. If well is flowing uncontrollably, close annular, which will open HCR to divert flow away from rig.
3. Swap to 10 ppg brine and circulate around. Notify superintendent.
4. After 10 ppg is circulated around shut pumps off and perform flow check.

Well Control Procedures

Coterra follows a hard shut-in procedure. Choke will be in the closed position.

General Well Control

1. If in doubt, secure the well first, then inform your supervisor.
2. Never wait for approval to shut in the well.
3. Verify that the mud pump is off before you close the BOP.
4. Always check and verify the well is properly secured after shut in.
5. Always install TIW valve in the open position.
6. If TIW valve is installed and then closed, apply estimated DP shut-in pressure above valve before opening.
7. The weak link in the mud system and mud lines is the pressure relief valve or pop off valve on the mud pump.
8. Keep the TIW valve wrench in a designated location on the rig floor and in the open position.
9. Use a drill string float above the bit. Don't perforate or disable the float.
10. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.

Hard Shut-In

1. Remote choke is closed.
2. Stop pumping and space out.
3. Check for flow.
4. To shut in, close annular or pipe ram if no annular is present.
5. Open the HCR valve.
6. Check systems, bump float. Record Initial Shut in Drill pipe pressure and Initial shut in casing pressure.

Coterra: Well Control Plan

Flow Check when on Bottom

1. Alert crew & stop rotating
2. Pick up and space out
3. Shut down pumps
4. Observe well for flow
5. Shut-in if flowing

Shutting in while Drilling

1. After flow has been detected via flow check, kill pumps, shut in well and open HCR
2. Verify well is shut-in and flow has stopped
3. Notify supervisory personnel
4. Record data
5. Begin go forward planning

Flow Check while Tripping

1. Alert crew & pick up / space out
2. Stop pipe movement. Set slips with tool joint accessible at rotary table
3. Install open TIW safety valve and close valve
4. Observe well for flow
5. Shut-in if flowing

Shutting in while Tripping

1. Install open TIW safety valve and close valve
2. Shut-in the well
3. Verify well is shut-in and flow has stopped
4. Install IBOP
5. Notify supervisory personnel
6. Record data; SICP, shut-in time, kick depth, and pit gain
7. Begin go forward planning

Shutting in while Out of Hole

1. Sound alarm
2. Shut-in well: close blind rams.
3. Verify well is shut-in and monitor pressures.
4. Notify supervisory personnel
5. Record data; SICP, shut-in time, kick depth, and pit gain
6. Begin go forward planning

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

Coterra: Well Control Plan

2. Shut in casing pressure every 5 minutes
3. Pit gain
4. Total volume in pit system
5. Mud weight in suction pit
6. Current depth
7. Total depth
8. Time the well is shut in

H2S with Annular Diverter:

1. Kill Pumps, close annular, which will open HCR, to divert flow away from rig.
2. Muster and take head count.
3. Call ASSI to check location for H2S. Call Coterra superintendent.
4. After ASSI has checked for H2S the path forward will be decided from Coterra superintendent.

H2S with BOP's:

1. Kill pumps
2. Shut in annular with HCR open and chokes closed.
3. Muster and take head count.
4. Call ASSI to check location for H2S. Call Coterra superintendent.
5. After ASSI has checked for H2S. discuss path forward with Coterra superintendent

Procedure for Closing Blind Rams

- Open HCR valve (visually check that the HCR valve is open – stem in the valve is open, stem out the valve is closed).
- Verify all circulating pumps are off (mud pumps, trip tank pump, etc.)
- Ensure that the hydraulic choke is in the closed position.
- Close the blind rams and place the “blind rams closed, bleed pressure and remove hole cover before opening” sign on the console.
- Monitor the shut in casing pressure gauge periodically while the blinds are closed to ensure that wellbore pressure isn't building. If pressure build up is observed, monitor the shut in casing pressure more frequently & document. Notify rig management and Coterra representative of the pressure build up.
- Ensure that the inner bushings are locked into the master bushings if applicable.
- Install hole cover.

Procedure for Opening Blind Rams

- Make sure choke manifold is aligned correctly.
- Open the hydraulic choke to bleed any trapped pressure that may be under the blind rams. (Even if the casing pressure gauge is reading zero).

Coterra: Well Control Plan

- Confirm that no flow is discharging into the trip tank or possum bellies of the shale shaker (wherever the separator is discharging into).
- Remove hole cover.
- Confirm that the inner bushing are locked into the master bushings if applicable.
- Clear all personnel from the rig floor.
- Remove sign and open blind rams.
- Return the BOPE to its original operating alignment.

BOP Drills

- Drilling crews should conduct BOP drills weekly from BOP nipple up to TD for reaction time to properly simulate securing the well. Record BOP drills on that day's report.
- Standard precautions such as checking the accumulator for proper working pressure, function testing rams, and recording slow pump rates are performed on a daily basis or on trips..
- All supervisory personnel onsite need to be properly trained and currently hold certification from an approved blowout prevention school. Any deviation from this needs to be discussed prior to spud.
- Drillers should always notify the tool pusher and the drilling foreman before performing a blowout drill.

Choke Manifold Freeze Prevention

- When possible, blow out the choke & kill lines as well as the choke manifold with rig air to remove water based fluids.
- When clear water is being placed into the choke & kill line as well as the choke manifold, make sure that the water has a mixture of 30% methanol added.
- When applicable, choke & kill lines as well as choke manifold needs to be pumped through with the rig pump by the driller to ensure that the lines aren't plugged with settling barite or solids.

COMPANY Coterra Energy
 FIELD Eddy County, NM (NAD 83)
 SITE Pintail 23-26-35 Federal Com
 WELL Pintail 23-26-35 Federal Com 12H
 WELLPATH OH
 DESIGN Plan 1
 DEPTHUNT (usft)

WELL INFO

MAP DATUM North American Datum 1983
 MAP SYSTE US State Plane 1983
 MAP ZONE New Mexico Eastern Zone
 WELL LAT 32.121434
 WELL LON -104.26581
 WELL EW M 562241.12
 WELL NS M/ 407920.44
 CONVERGE 0.04
 MAGMODEL HDGM2026
 DECLINATIC 6.67
 NORTH REF Grid
 GROUND EL 3300.5
 KB ELEVN 3323.5
 VS AZI 180.36

SURVEY PROGRAM

1 0.00 - 23235.54 PLAN 1 : MWD+IFR1+MS

SURVEY LIST

Measured MD	De Inclin INC	Azimuth AZI	Course CL	Leng TVD	True TVD	Vertical SSTVD	SubSea TVD	Local N/-S NS
0.00	0.00	0.00	0.00	0.00	0.00	3323.50	0.00	0.00
100.00	0.00	0.00	100.00	100.00	100.00	3223.50	0.00	0.00
200.00	0.00	0.00	100.00	100.00	200.00	3123.50	0.00	0.00
300.00	0.00	0.00	100.00	100.00	300.00	3023.50	0.00	0.00
400.00	0.00	0.00	100.00	100.00	400.00	2923.50	0.00	0.00
500.00	0.00	0.00	100.00	100.00	500.00	2823.50	0.00	0.00
600.00	0.00	0.00	100.00	100.00	600.00	2723.50	0.00	0.00
700.00	0.00	0.00	100.00	100.00	700.00	2623.50	0.00	0.00
800.00	0.00	0.00	100.00	100.00	800.00	2523.50	0.00	0.00
900.00	0.00	0.00	100.00	100.00	900.00	2423.50	0.00	0.00
1000.00	0.00	0.00	100.00	100.00	1000.00	2323.50	0.00	0.00
1100.00	0.00	0.00	100.00	100.00	1100.00	2223.50	0.00	0.00
1200.00	0.00	0.00	100.00	100.00	1200.00	2123.50	0.00	0.00
1300.00	0.00	0.00	100.00	100.00	1300.00	2023.50	0.00	0.00
1400.00	0.00	0.00	100.00	100.00	1400.00	1923.50	0.00	0.00
1500.00	2.00	282.71	100.00	100.00	1499.98	1823.52	0.38	0.38

1600.00	4.00	282.71	100.00	1599.84	1723.66	1.54
1700.00	6.00	282.71	100.00	1699.45	1624.05	3.45
1800.00	8.00	282.71	100.00	1798.70	1524.80	6.13
1900.00	10.00	282.71	100.00	1897.47	1426.04	9.57
2000.00	12.00	282.71	100.00	1995.62	1327.88	13.77
2100.00	14.00	282.71	100.00	2093.06	1230.45	18.72
2139.61	14.79	282.71	39.61	2131.42	1192.08	20.88
2200.00	14.79	282.71	60.39	2189.81	1133.69	24.27
2300.00	14.79	282.71	100.00	2286.50	1037.00	29.89
2400.00	14.79	282.71	100.00	2383.18	940.32	35.51
2500.00	14.79	282.71	100.00	2479.87	843.63	41.12
2600.00	14.79	282.71	100.00	2576.55	746.95	46.74
2700.00	14.79	282.71	100.00	2673.24	650.26	52.35
2800.00	14.79	282.71	100.00	2769.93	553.58	57.97
2900.00	14.79	282.71	100.00	2866.61	456.89	63.58
3000.00	14.79	282.71	100.00	2963.30	360.20	69.20
3100.00	14.79	282.71	100.00	3059.98	263.52	74.82
3200.00	14.79	282.71	100.00	3156.67	166.83	80.43
3300.00	14.79	282.71	100.00	3253.35	70.15	86.05
3400.00	14.79	282.71	100.00	3350.04	-26.54	91.66
3500.00	14.79	282.71	100.00	3446.73	-123.23	97.28
3600.00	14.79	282.71	100.00	3543.41	-219.91	102.89
3700.00	14.79	282.71	100.00	3640.10	-316.60	108.51
3800.00	14.79	282.71	100.00	3736.78	-413.28	114.12
3900.00	14.79	282.71	100.00	3833.47	-509.97	119.74
4000.00	14.79	282.71	100.00	3930.16	-606.66	125.36
4100.00	14.79	282.71	100.00	4026.84	-703.34	130.97
4200.00	14.79	282.71	100.00	4123.53	-800.03	136.59
4300.00	14.79	282.71	100.00	4220.21	-896.71	142.20
4400.00	14.79	282.71	100.00	4316.90	-993.40	147.82
4500.00	14.79	282.71	100.00	4413.58	-1090.08	153.43
4600.00	14.79	282.71	100.00	4510.27	-1186.77	159.05
4700.00	14.79	282.71	100.00	4606.96	-1283.46	164.67
4800.00	14.79	282.71	100.00	4703.64	-1380.14	170.28
4900.00	14.79	282.71	100.00	4800.33	-1476.83	175.90
5000.00	14.79	282.71	100.00	4897.01	-1573.51	181.51
5100.00	14.79	282.71	100.00	4993.70	-1670.20	187.13
5200.00	14.79	282.71	100.00	5090.39	-1766.89	192.74
5300.00	14.79	282.71	100.00	5187.07	-1863.57	198.36
5400.00	14.79	282.71	100.00	5283.76	-1960.26	203.97
5500.00	14.79	282.71	100.00	5380.44	-2056.94	209.59
5600.00	14.79	282.71	100.00	5477.13	-2153.63	215.21
5700.00	14.79	282.71	100.00	5573.81	-2250.31	220.82
5800.00	14.79	282.71	100.00	5670.50	-2347.00	226.44
5900.00	14.79	282.71	100.00	5767.19	-2443.69	232.05
6000.00	14.79	282.71	100.00	5863.87	-2540.37	237.67

6100.00	14.79	282.71	100.00	5960.56	-2637.06	243.28
6200.00	14.79	282.71	100.00	6057.24	-2733.74	248.90
6300.00	14.79	282.71	100.00	6153.93	-2830.43	254.52
6400.00	14.79	282.71	100.00	6250.62	-2927.12	260.13
6500.00	14.79	282.71	100.00	6347.30	-3023.80	265.75
6600.00	14.79	282.71	100.00	6443.99	-3120.49	271.36
6700.00	14.79	282.71	100.00	6540.67	-3217.17	276.98
6800.00	14.79	282.71	100.00	6637.36	-3313.86	282.59
6900.00	14.79	282.71	100.00	6734.04	-3410.54	288.21
7000.00	14.79	282.71	100.00	6830.73	-3507.23	293.83
7100.00	14.79	282.71	100.00	6927.42	-3603.92	299.44
7200.00	14.79	282.71	100.00	7024.10	-3700.60	305.06
7237.39	14.79	282.71	37.39	7060.25	-3736.75	307.16
7250.00	14.68	277.77	12.61	7072.45	-3748.95	307.73
7300.00	15.25	258.44	50.00	7120.78	-3797.28	307.26
7350.00	17.28	242.04	50.00	7168.81	-3845.31	302.46
7400.00	20.33	229.70	50.00	7216.15	-3892.65	293.36
7450.00	24.03	220.74	50.00	7262.45	-3938.95	280.02
7500.00	28.11	214.13	50.00	7307.37	-3983.87	262.54
7550.00	32.43	209.13	50.00	7350.55	-4027.05	241.07
7600.00	36.90	205.20	50.00	7391.67	-4068.17	215.76
7650.00	41.48	202.02	50.00	7430.42	-4106.92	186.81
7700.00	46.13	199.37	50.00	7466.49	-4142.99	154.43
7750.00	50.84	197.11	50.00	7499.63	-4176.13	118.88
7800.00	55.58	195.13	50.00	7529.56	-4206.06	80.42
7850.00	60.36	193.37	50.00	7556.08	-4232.58	39.35
7900.00	65.15	191.77	50.00	7578.96	-4255.46	-4.03
7950.00	69.96	190.29	50.00	7598.05	-4274.55	-49.37
8000.00	74.78	188.89	50.00	7613.19	-4289.69	-96.34
8050.00	79.61	187.56	50.00	7624.28	-4300.78	-144.58
8100.00	84.44	186.27	50.00	7631.21	-4307.71	-193.72
8150.00	89.28	185.00	50.00	7633.95	-4310.45	-243.39
8157.49	90.00	184.81	7.49	7634.00	-4310.50	-250.85
8200.00	90.00	184.81	42.51	7634.00	-4310.50	-293.21
8300.00	90.00	184.81	100.00	7634.00	-4310.50	-392.86
8357.49	90.00	184.81	57.49	7634.00	-4310.50	-450.15
8400.00	90.00	183.96	42.51	7634.00	-4310.50	-492.54
8500.00	90.00	181.96	100.00	7634.00	-4310.50	-592.40
8607.49	90.00	179.81	107.49	7634.00	-4310.50	-699.86
8700.00	90.00	179.81	92.51	7634.00	-4310.50	-792.38
8800.00	90.00	179.81	100.00	7634.00	-4310.50	-892.38
8900.00	90.00	179.81	100.00	7634.00	-4310.50	-992.38
9000.00	90.00	179.81	100.00	7634.00	-4310.50	-1092.38
9100.00	90.00	179.81	100.00	7634.00	-4310.50	-1192.37
9200.00	90.00	179.81	100.00	7634.00	-4310.50	-1292.37
9300.00	90.00	179.81	100.00	7634.00	-4310.50	-1392.37

9400.00	90.00	179.81	100.00	7634.00	-4310.50	-1492.37
9500.00	90.00	179.81	100.00	7634.00	-4310.50	-1592.37
9600.00	90.00	179.81	100.00	7634.00	-4310.50	-1692.37
9700.00	90.00	179.81	100.00	7634.00	-4310.50	-1792.37
9800.00	90.00	179.81	100.00	7634.00	-4310.50	-1892.37
9900.00	90.00	179.81	100.00	7634.00	-4310.50	-1992.37
10000.00	90.00	179.81	100.00	7634.00	-4310.50	-2092.37
10100.00	90.00	179.81	100.00	7634.00	-4310.50	-2192.37
10200.00	90.00	179.81	100.00	7634.00	-4310.50	-2292.37
10300.00	90.00	179.81	100.00	7634.00	-4310.50	-2392.37
10400.00	90.00	179.81	100.00	7634.00	-4310.50	-2492.37
10500.00	90.00	179.81	100.00	7634.00	-4310.50	-2592.37
10600.00	90.00	179.81	100.00	7634.00	-4310.50	-2692.37
10700.00	90.00	179.81	100.00	7634.00	-4310.50	-2792.37
10800.00	90.00	179.81	100.00	7634.00	-4310.50	-2892.37
10900.00	90.00	179.81	100.00	7634.00	-4310.50	-2992.36
11000.00	90.00	179.81	100.00	7634.00	-4310.50	-3092.36
11100.00	90.00	179.81	100.00	7634.00	-4310.50	-3192.36
11200.00	90.00	179.81	100.00	7634.00	-4310.50	-3292.36
11300.00	90.00	179.81	100.00	7634.00	-4310.50	-3392.36
11400.00	90.00	179.81	100.00	7634.00	-4310.50	-3492.36
11500.00	90.00	179.81	100.00	7634.00	-4310.50	-3592.36
11600.00	90.00	179.81	100.00	7634.00	-4310.50	-3692.36
11700.00	90.00	179.81	100.00	7634.00	-4310.50	-3792.36
11800.00	90.00	179.81	100.00	7634.00	-4310.50	-3892.36
11900.00	90.00	179.81	100.00	7634.00	-4310.50	-3992.36
12000.00	90.00	179.81	100.00	7634.00	-4310.50	-4092.36
12100.00	90.00	179.81	100.00	7634.00	-4310.50	-4192.36
12200.00	90.00	179.81	100.00	7634.00	-4310.50	-4292.36
12300.00	90.00	179.81	100.00	7634.00	-4310.50	-4392.36
12400.00	90.00	179.81	100.00	7634.00	-4310.50	-4492.36
12500.00	90.00	179.81	100.00	7634.00	-4310.50	-4592.36
12600.00	90.00	179.81	100.00	7634.00	-4310.50	-4692.36
12700.00	90.00	179.81	100.00	7634.00	-4310.50	-4792.35
12780.49	90.00	179.81	80.49	7634.00	-4310.50	-4872.84
12800.00	90.00	180.20	19.51	7634.00	-4310.50	-4892.35
12816.56	90.00	180.53	16.56	7634.00	-4310.50	-4908.92
12900.00	90.00	180.53	83.44	7634.00	-4310.50	-4992.35
13000.00	90.00	180.53	100.00	7634.00	-4310.50	-5092.35
13100.00	90.00	180.53	100.00	7634.00	-4310.50	-5192.34
13200.00	90.00	180.53	100.00	7634.00	-4310.50	-5292.34
13300.00	90.00	180.53	100.00	7634.00	-4310.50	-5392.33
13400.00	90.00	180.53	100.00	7634.00	-4310.50	-5492.33
13500.00	90.00	180.53	100.00	7634.00	-4310.50	-5592.32
13600.00	90.00	180.53	100.00	7634.00	-4310.50	-5692.32
13700.00	90.00	180.53	100.00	7634.00	-4310.50	-5792.32

13800.00	90.00	180.53	100.00	7634.00	-4310.50	-5892.31
13900.00	90.00	180.53	100.00	7634.00	-4310.50	-5992.31
14000.00	90.00	180.53	100.00	7634.00	-4310.50	-6092.30
14100.00	90.00	180.53	100.00	7634.00	-4310.50	-6192.30
14200.00	90.00	180.53	100.00	7634.00	-4310.50	-6292.29
14300.00	90.00	180.53	100.00	7634.00	-4310.50	-6392.29
14400.00	90.00	180.53	100.00	7634.00	-4310.50	-6492.29
14500.00	90.00	180.53	100.00	7634.00	-4310.50	-6592.28
14600.00	90.00	180.53	100.00	7634.00	-4310.50	-6692.28
14700.00	90.00	180.53	100.00	7634.00	-4310.50	-6792.27
14800.00	90.00	180.53	100.00	7634.00	-4310.50	-6892.27
14900.00	90.00	180.53	100.00	7634.00	-4310.50	-6992.26
15000.00	90.00	180.53	100.00	7634.00	-4310.50	-7092.26
15100.00	90.00	180.53	100.00	7634.00	-4310.50	-7192.26
15200.00	90.00	180.53	100.00	7634.00	-4310.50	-7292.25
15300.00	90.00	180.53	100.00	7634.00	-4310.50	-7392.25
15400.00	90.00	180.53	100.00	7634.00	-4310.50	-7492.24
15424.53	90.00	180.53	24.53	7634.00	-4310.50	-7516.77
15426.56	90.00	180.57	2.03	7634.00	-4310.50	-7518.80
15500.00	90.00	180.57	73.44	7634.00	-4310.50	-7592.24
15600.00	90.00	180.57	100.00	7634.00	-4310.50	-7692.23
15700.00	90.00	180.57	100.00	7634.00	-4310.50	-7792.23
15800.00	90.00	180.57	100.00	7634.00	-4310.50	-7892.22
15900.00	90.00	180.57	100.00	7634.00	-4310.50	-7992.22
16000.00	90.00	180.57	100.00	7634.00	-4310.50	-8092.21
16100.00	90.00	180.57	100.00	7634.00	-4310.50	-8192.21
16200.00	90.00	180.57	100.00	7634.00	-4310.50	-8292.20
16300.00	90.00	180.57	100.00	7634.00	-4310.50	-8392.20
16400.00	90.00	180.57	100.00	7634.00	-4310.50	-8492.19
16500.00	90.00	180.57	100.00	7634.00	-4310.50	-8592.19
16600.00	90.00	180.57	100.00	7634.00	-4310.50	-8692.18
16700.00	90.00	180.57	100.00	7634.00	-4310.50	-8792.18
16800.00	90.00	180.57	100.00	7634.00	-4310.50	-8892.17
16900.00	90.00	180.57	100.00	7634.00	-4310.50	-8992.17
17000.00	90.00	180.57	100.00	7634.00	-4310.50	-9092.16
17100.00	90.00	180.57	100.00	7634.00	-4310.50	-9192.16
17200.00	90.00	180.57	100.00	7634.00	-4310.50	-9292.15
17300.00	90.00	180.57	100.00	7634.00	-4310.50	-9392.15
17400.00	90.00	180.57	100.00	7634.00	-4310.50	-9492.14
17500.00	90.00	180.57	100.00	7634.00	-4310.50	-9592.14
17600.00	90.00	180.57	100.00	7634.00	-4310.50	-9692.13
17700.00	90.00	180.57	100.00	7634.00	-4310.50	-9792.13
17800.00	90.00	180.57	100.00	7634.00	-4310.50	-9892.12
17900.00	90.00	180.57	100.00	7634.00	-4310.50	-9992.12
18000.00	90.00	180.57	100.00	7634.00	-4310.50	-10092.11
18058.17	90.00	180.57	58.17	7634.00	-4310.50	-10150.28

18065.22	90.00	180.71	7.05	7634.00	-4310.50	-10157.33
18100.00	90.00	180.71	34.78	7634.00	-4310.50	-10192.11
18200.00	90.00	180.71	100.00	7634.00	-4310.50	-10292.10
18300.00	90.00	180.71	100.00	7634.00	-4310.50	-10392.09
18400.00	90.00	180.71	100.00	7634.00	-4310.50	-10492.08
18500.00	90.00	180.71	100.00	7634.00	-4310.50	-10592.08
18600.00	90.00	180.71	100.00	7634.00	-4310.50	-10692.07
18700.00	90.00	180.71	100.00	7634.00	-4310.50	-10792.06
18800.00	90.00	180.71	100.00	7634.00	-4310.50	-10892.05
18900.00	90.00	180.71	100.00	7634.00	-4310.50	-10992.05
19000.00	90.00	180.71	100.00	7634.00	-4310.50	-11092.04
19100.00	90.00	180.71	100.00	7634.00	-4310.50	-11192.03
19200.00	90.00	180.71	100.00	7634.00	-4310.50	-11292.02
19300.00	90.00	180.71	100.00	7634.00	-4310.50	-11392.01
19400.00	90.00	180.71	100.00	7634.00	-4310.50	-11492.01
19500.00	90.00	180.71	100.00	7634.00	-4310.50	-11592.00
19600.00	90.00	180.71	100.00	7634.00	-4310.50	-11691.99
19700.00	90.00	180.71	100.00	7634.00	-4310.50	-11791.98
19800.00	90.00	180.71	100.00	7634.00	-4310.50	-11891.98
19900.00	90.00	180.71	100.00	7634.00	-4310.50	-11991.97
20000.00	90.00	180.71	100.00	7634.00	-4310.50	-12091.96
20100.00	90.00	180.71	100.00	7634.00	-4310.50	-12191.95
20200.00	90.00	180.71	100.00	7634.00	-4310.50	-12291.94
20300.00	90.00	180.71	100.00	7634.00	-4310.50	-12391.94
20400.00	90.00	180.71	100.00	7634.00	-4310.50	-12491.93
20500.00	90.00	180.71	100.00	7634.00	-4310.50	-12591.92
20600.00	90.00	180.71	100.00	7634.00	-4310.50	-12691.91
20700.00	90.00	180.71	100.00	7634.00	-4310.50	-12791.91
20800.00	90.00	180.71	100.00	7634.00	-4310.50	-12891.90
20900.00	90.00	180.71	100.00	7634.00	-4310.50	-12991.89
21000.00	90.00	180.71	100.00	7634.00	-4310.50	-13091.88
21100.00	90.00	180.71	100.00	7634.00	-4310.50	-13191.88
21200.00	90.00	180.71	100.00	7634.00	-4310.50	-13291.87
21300.00	90.00	180.71	100.00	7634.00	-4310.50	-13391.86
21400.00	90.00	180.71	100.00	7634.00	-4310.50	-13491.85
21500.00	90.00	180.71	100.00	7634.00	-4310.50	-13591.84
21600.00	90.00	180.71	100.00	7634.00	-4310.50	-13691.84
21700.00	90.00	180.71	100.00	7634.00	-4310.50	-13791.83
21800.00	90.00	180.71	100.00	7634.00	-4310.50	-13891.82
21900.00	90.00	180.71	100.00	7634.00	-4310.50	-13991.81
22000.00	90.00	180.71	100.00	7634.00	-4310.50	-14091.81
22100.00	90.00	180.71	100.00	7634.00	-4310.50	-14191.80
22200.00	90.00	180.71	100.00	7634.00	-4310.50	-14291.79
22300.00	90.00	180.71	100.00	7634.00	-4310.50	-14391.78
22400.00	90.00	180.71	100.00	7634.00	-4310.50	-14491.77
22500.00	90.00	180.71	100.00	7634.00	-4310.50	-14591.77

22600.00	90.00	180.71	100.00	7634.00	-4310.50	-14691.76
22700.00	90.00	180.71	100.00	7634.00	-4310.50	-14791.75
22800.00	90.00	180.71	100.00	7634.00	-4310.50	-14891.74
22900.00	90.00	180.71	100.00	7634.00	-4310.50	-14991.74
23000.00	90.00	180.71	100.00	7634.00	-4310.50	-15091.73
23100.00	90.00	180.71	100.00	7634.00	-4310.50	-15191.72
23200.00	90.00	180.71	100.00	7634.00	-4310.50	-15291.71
23235.54	90.00	180.71	35.54	7634.00	-4310.50	-15327.25

Local E/-W EW	Easting X	Northing Y	Latitude LAT	Longitude LON	Dogleg DLS	Seve BLD	Build Rate
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
0.00	562241.12	407920.44	32.121434	-104.265811		0.00	0.00
-1.70	562239.42	407920.82	32.121435	-104.265816		2.00	2.00

-6.81	562234.31	407921.98	32.121439	-104.265833	2.00	2.00
-15.31	562225.81	407923.89	32.121444	-104.265860	2.00	2.00
-27.20	562213.92	407926.57	32.121451	-104.265898	2.00	2.00
-42.46	562198.66	407930.01	32.121461	-104.265948	2.00	2.00
-61.07	562180.05	407934.21	32.121472	-104.266008	2.00	2.00
-83.01	562158.11	407939.16	32.121486	-104.266079	2.00	2.00
-92.62	562148.50	407941.32	32.121492	-104.266110	2.00	2.00
-107.66	562133.46	407944.71	32.121501	-104.266158	0.00	0.00
-132.57	562108.55	407950.33	32.121517	-104.266239	0.00	0.00
-157.47	562083.65	407955.95	32.121532	-104.266319	0.00	0.00
-182.38	562058.74	407961.56	32.121548	-104.266400	0.00	0.00
-207.29	562033.84	407967.18	32.121563	-104.266480	0.00	0.00
-232.19	562008.93	407972.79	32.121579	-104.266560	0.00	0.00
-257.10	561984.02	407978.41	32.121594	-104.266641	0.00	0.00
-282.00	561959.12	407984.02	32.121610	-104.266721	0.00	0.00
-306.91	561934.21	407989.64	32.121625	-104.266802	0.00	0.00
-331.82	561909.31	407995.26	32.121641	-104.266882	0.00	0.00
-356.72	561884.40	408000.87	32.121656	-104.266963	0.00	0.00
-381.63	561859.49	408006.49	32.121672	-104.267043	0.00	0.00
-406.53	561834.59	408012.10	32.121687	-104.267124	0.00	0.00
-431.44	561809.68	408017.72	32.121702	-104.267204	0.00	0.00
-456.35	561784.77	408023.33	32.121718	-104.267284	0.00	0.00
-481.25	561759.87	408028.95	32.121733	-104.267365	0.00	0.00
-506.16	561734.96	408034.56	32.121749	-104.267445	0.00	0.00
-531.06	561710.06	408040.18	32.121764	-104.267526	0.00	0.00
-555.97	561685.15	408045.80	32.121780	-104.267606	0.00	0.00
-580.88	561660.24	408051.41	32.121795	-104.267687	0.00	0.00
-605.78	561635.34	408057.03	32.121811	-104.267767	0.00	0.00
-630.69	561610.43	408062.64	32.121826	-104.267848	0.00	0.00
-655.60	561585.53	408068.26	32.121842	-104.267928	0.00	0.00
-680.50	561560.62	408073.87	32.121857	-104.268008	0.00	0.00
-705.41	561535.71	408079.49	32.121873	-104.268089	0.00	0.00
-730.31	561510.81	408085.11	32.121888	-104.268169	0.00	0.00
-755.22	561485.90	408090.72	32.121904	-104.268250	0.00	0.00
-780.13	561461.00	408096.34	32.121919	-104.268330	0.00	0.00
-805.03	561436.09	408101.95	32.121935	-104.268411	0.00	0.00
-829.94	561411.18	408107.57	32.121950	-104.268491	0.00	0.00
-854.84	561386.28	408113.18	32.121966	-104.268572	0.00	0.00
-879.75	561361.37	408118.80	32.121981	-104.268652	0.00	0.00
-904.66	561336.46	408124.41	32.121997	-104.268732	0.00	0.00
-929.56	561311.56	408130.03	32.122012	-104.268813	0.00	0.00
-954.47	561286.65	408135.65	32.122028	-104.268893	0.00	0.00
-979.37	561261.75	408141.26	32.122043	-104.268974	0.00	0.00
-1004.28	561236.84	408146.88	32.122058	-104.269054	0.00	0.00
-1029.19	561211.93	408152.49	32.122074	-104.269135	0.00	0.00
-1054.09	561187.03	408158.11	32.122089	-104.269215	0.00	0.00

-1079.00	561162.12	408163.72	32.122105	-104.269295	0.00	0.00
-1103.91	561137.22	408169.34	32.122120	-104.269376	0.00	0.00
-1128.81	561112.31	408174.96	32.122136	-104.269456	0.00	0.00
-1153.72	561087.40	408180.57	32.122151	-104.269537	0.00	0.00
-1178.62	561062.50	408186.19	32.122167	-104.269617	0.00	0.00
-1203.53	561037.59	408191.80	32.122182	-104.269698	0.00	0.00
-1228.44	561012.68	408197.42	32.122198	-104.269778	0.00	0.00
-1253.34	560987.78	408203.03	32.122213	-104.269859	0.00	0.00
-1278.25	560962.87	408208.65	32.122229	-104.269939	0.00	0.00
-1303.15	560937.97	408214.27	32.122244	-104.270019	0.00	0.00
-1328.06	560913.06	408219.88	32.122260	-104.270100	0.00	0.00
-1352.97	560888.15	408225.50	32.122275	-104.270180	0.00	0.00
-1362.28	560878.84	408227.60	32.122281	-104.270210	0.00	0.00
-1365.43	560875.69	408228.17	32.122283	-104.270221	10.00	-0.92
-1378.16	560862.96	408227.70	32.122281	-104.270262	10.00	1.14
-1391.17	560849.95	408222.90	32.122268	-104.270304	10.00	4.06
-1404.36	560836.76	408213.80	32.122243	-104.270346	10.00	6.11
-1417.64	560823.48	408200.46	32.122206	-104.270389	10.00	7.38
-1430.90	560810.22	408182.98	32.122158	-104.270432	10.00	8.16
-1444.04	560797.08	408161.51	32.122099	-104.270475	10.00	8.64
-1456.96	560784.16	408136.20	32.122030	-104.270516	10.00	8.95
-1469.57	560771.55	408107.25	32.121950	-104.270557	10.00	9.16
-1481.76	560759.36	408074.87	32.121861	-104.270597	10.00	9.31
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Turn Rate TRN	Vertical Section VS
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0.00	6602.13
0.00	6702.13
0.00	6802.13
0.00	6902.13
0.00	7002.13
0.00	7102.13
0.00	7202.13
0.00	7302.13
0.00	7402.13
0.00	7502.13
0.00	7526.66
2.00	7528.69
0.00	7602.13
0.00	7702.13
0.00	7802.13
0.00	7902.13
0.00	8002.13
0.00	8102.12
0.00	8202.12
0.00	8302.12
0.00	8402.12
0.00	8502.12
0.00	8602.12
0.00	8702.12
0.00	8802.12
0.00	8902.12
0.00	9002.12
0.00	9102.12
0.00	9202.12
0.00	9302.12
0.00	9402.12
0.00	9502.12
0.00	9602.11
0.00	9702.11
0.00	9802.11
0.00	9902.11
0.00	10002.11
0.00	10102.11
0.00	10160.28

2.00	10167.33
0.00	10202.11
0.00	10302.11
0.00	10402.11
0.00	10502.10
0.00	10602.10
0.00	10702.10
0.00	10802.10
0.00	10902.10
0.00	11002.09
0.00	11102.09
0.00	11202.09
0.00	11302.09
0.00	11402.09
0.00	11502.09
0.00	11602.08
0.00	11702.08
0.00	11802.08
0.00	11902.08
0.00	12002.08
0.00	12102.07
0.00	12202.07
0.00	12302.07
0.00	12402.07
0.00	12502.07
0.00	12602.06
0.00	12702.06
0.00	12802.06
0.00	12902.06
0.00	13002.06
0.00	13102.05
0.00	13202.05
0.00	13302.05
0.00	13402.05
0.00	13502.05
0.00	13602.05
0.00	13702.04
0.00	13802.04
0.00	13902.04
0.00	14002.04
0.00	14102.04
0.00	14202.03
0.00	14302.03
0.00	14402.03
0.00	14502.03
0.00	14602.03

0.00	14702.02
0.00	14802.02
0.00	14902.02
0.00	15002.02
0.00	15102.02
0.00	15202.01
0.00	15302.01
0.00	15337.55

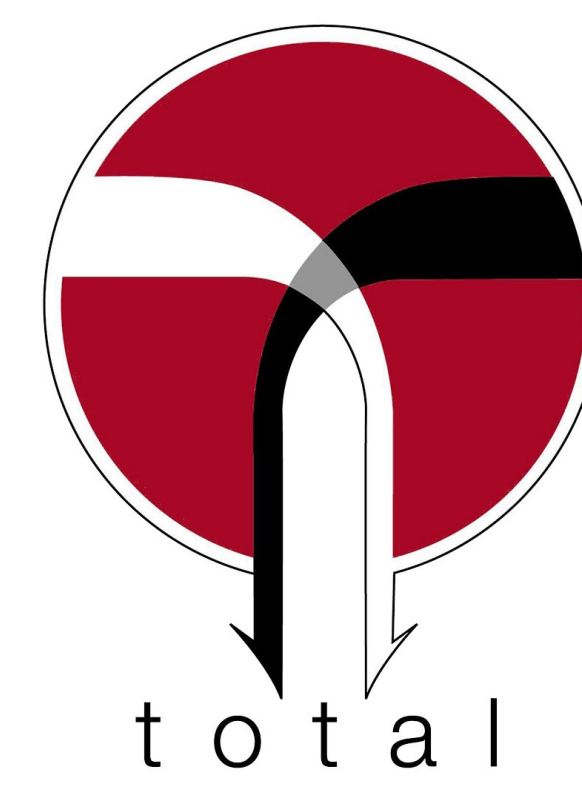


Coterra Energy

Site: **Pintail 23-26-35 Federal Com**
 Well: **Pintail 23-26-35 Federal Com 12H**
 Wellbore: **OH**
 Design: **Plan 1**
 Rig: **Rig**

PROJECT DETAILS: **Eddy County, NM (NAD 83)**

Geodetic System: **US State Plane 1983**
 Datum: **North American Datum 1983**
 Ellipsoid: **GRS 1980**
 Zone: **New Mexico Eastern Zone**



SHL

424' FNL, 1919' FWL
 RKB Elevation: 3300.5' GL + 23 @ 3323.50usft (Rig)

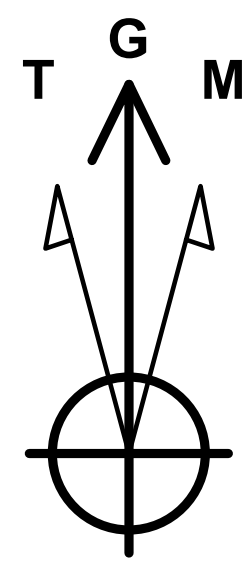
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	407920.44	562241.12	32.1214343	-104.2658106	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
2139.61	14.79	282.71	2131.42	20.88	-92.62	2.00	282.71	-20.30	Start hold at 2139.61 MD
7237.39	14.79	282.71	7060.25	307.16	-1362.28	0.00	0.00	-298.59	KOP - Start 10.00°/100' DLS
8157.49	90.00	184.81	7634.00	-250.85	-1559.83	10.00	-97.64	260.65	LP - 8157.49' MD
8357.49	90.00	184.81	7634.00	-450.15	-1576.60	0.00	0.00	460.04	Start Turn 2.00
8607.49	90.00	179.81	7634.00	-699.86	-1586.68	2.00	-90.00	709.82	Start hold at 8607.49 MD
12780.49	90.00	179.81	7634.00	-4872.84	-1572.84	0.00	0.00	4882.63	Start DLS 2.00 TFO 90.00
12816.56	90.00	180.53	7634.00	-4908.91	-1572.95	2.00	90.00	4918.70	Start hold at 12816.56 MD
15424.53	90.00	180.53	7634.00	-7516.77	-1597.14	0.00	0.00	7526.66	Start DLS 2.00 TFO 90.00
15426.56	90.00	180.57	7634.00	-7518.80	-1597.16	2.00	90.00	7528.69	Start hold at 15426.56 MD
18058.17	90.00	180.57	7634.00	-10150.28	-1623.44	0.00	0.00	10160.28	Start DLS 2.00 TFO 90.00
18065.22	90.00	180.71	7634.00	-10157.33	-1623.52	2.00	90.00	10167.33	Start hold at 18065.22 MD
23235.54	90.00	180.71	7634.00	-15327.25	-1687.87	0.00	0.00	15337.55	TD at 23235.54

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Pintail 23-26-35 FC 12H) 100FNL & 330FWL	7060.25	306.29	-1589.82	408226.73	560651.30	32.1222790	-104.2709454
IP1 (Pintail 23-26-35 FC 12H)	7634.00	-4872.84	-1572.84	403047.60	560668.28	32.1080417	-104.2709003
IP2 (Pintail 23-26-35 FC 12H)	7634.00	-7516.77	-1597.14	400403.67	560643.98	32.1007737	-104.2709837
IP3 (Pintail 23-26-35 FC 12H)	7634.00	-10150.28	-1623.44	397770.16	560617.68	32.0935344	-104.2710735
LTP (Pintail 23-26-35 FC 12H) 100FSL & 330FWL	7634.00	-15327.25	-1687.87	392593.19	560553.25	32.0793031	-104.2712912

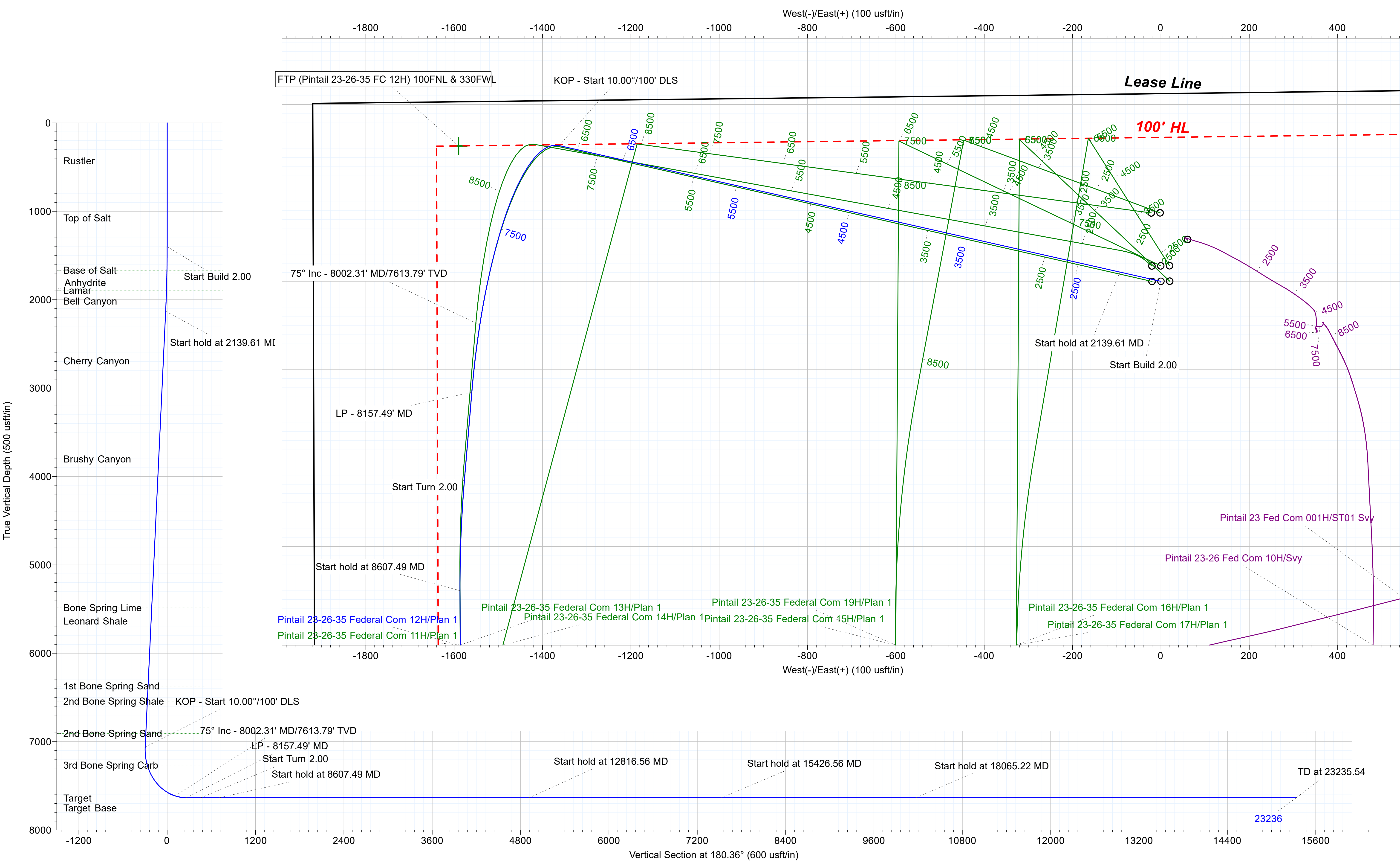
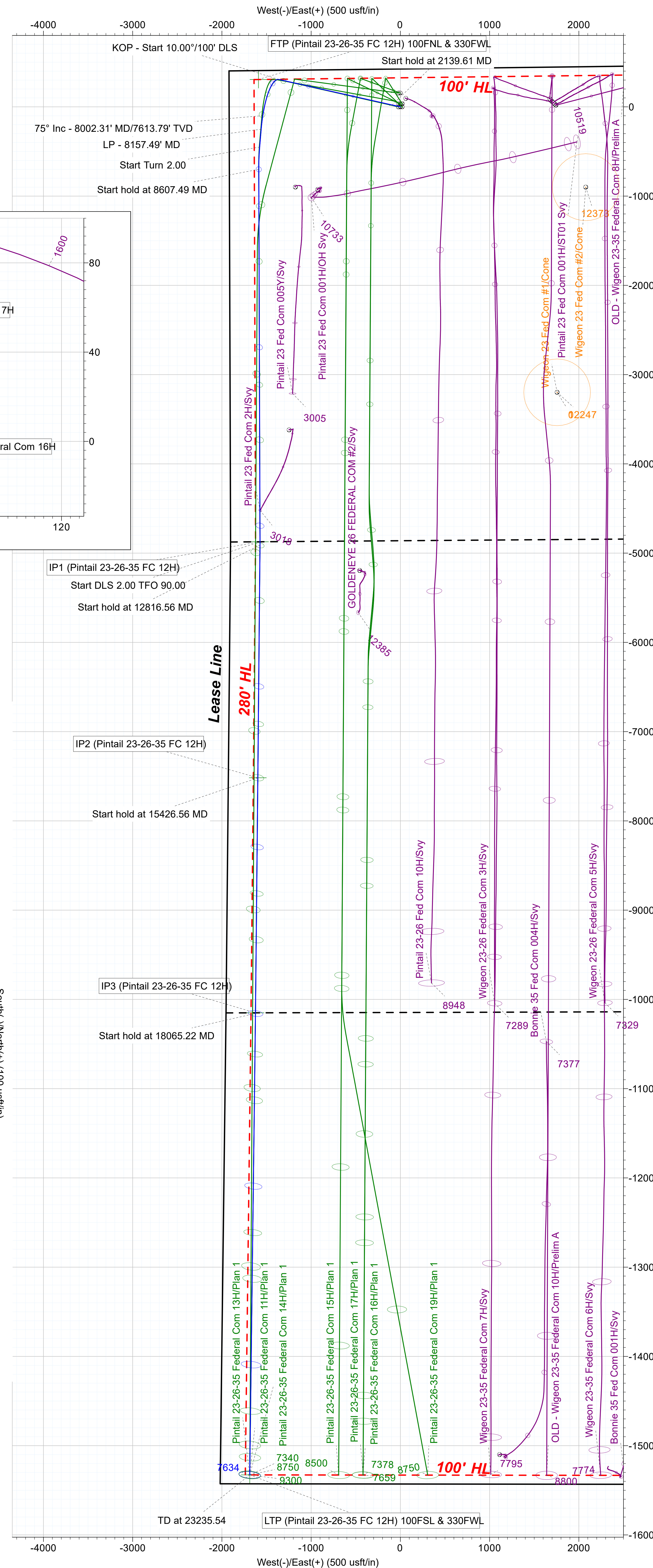
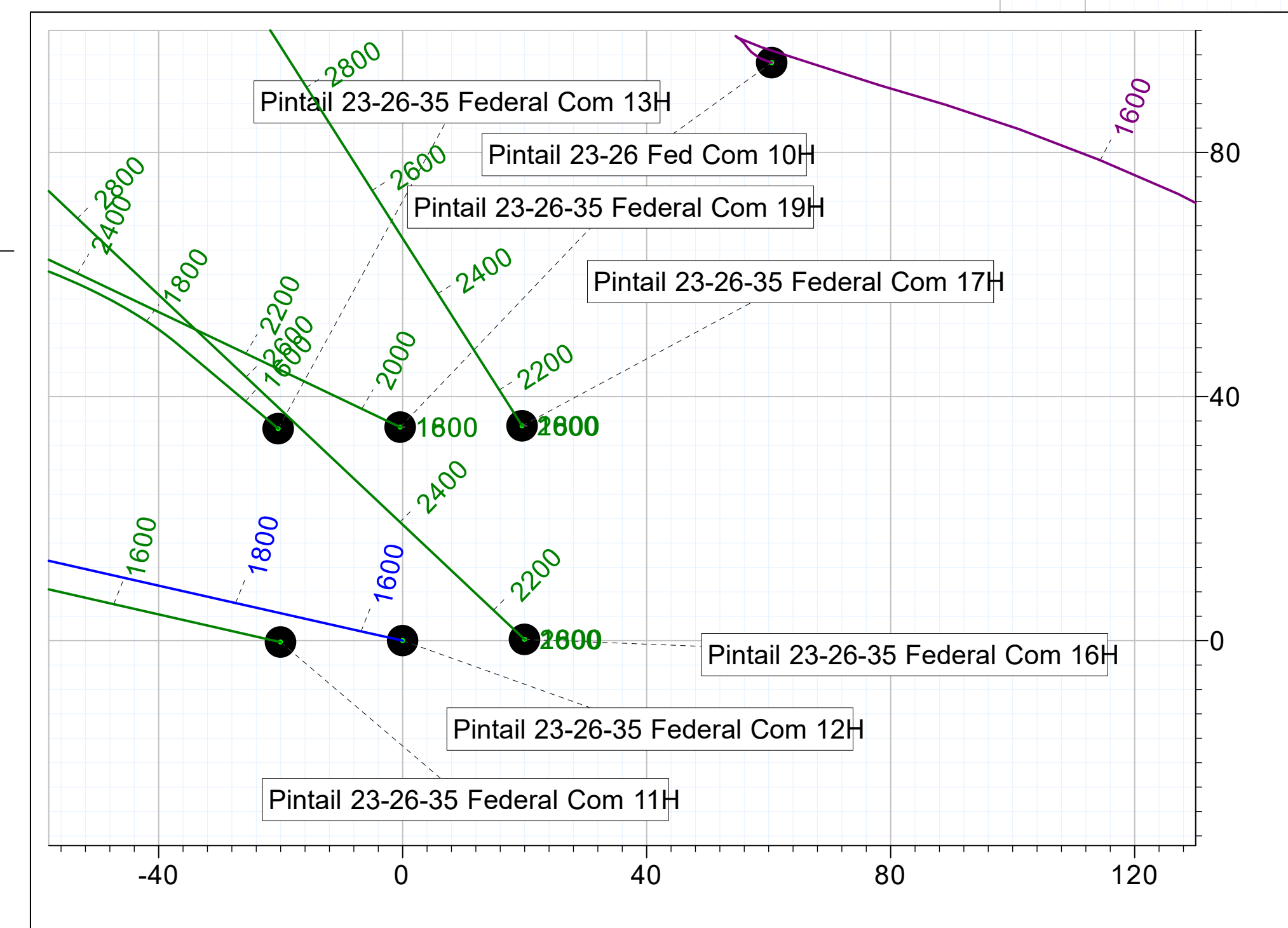


Azimuths to Grid North
 True North: -0.04°
 Magnetic North: 6.63°
 Magnetic Field
 Strength: 47050.6nT
 Dip Angle: 59.57°
 Date: 1/31/2026
 Model: HDGM2026

To convert a Magnetic Direction to a Grid Direction, Add 6.63°

Formations

TVDPath	MDPath	Formation
431.18	431.18	Rustler
1076.05	1076.05	Top of Salt
1667.85	1668.24	Base of Salt
1879.53	1881.80	Anhydrite
1893.58	1896.06	Lamar
2016.98	2021.85	Bell Canyon
2692.49	2719.92	Cherry Canyon
3803.34	3868.84	Brushy Canyon
5486.38	5609.57	Bone Spring Lime
5636.18	5764.50	Leonard Shale
6371.82	6525.36	1st Bone Spring Sand
6542.47	6701.86	2nd Bone Spring Shale
6907.69	7079.60	2nd Bone Spring Sand
7265.13	7452.93	3rd Bone Spring Carb



Coterra Energy

Eddy County, NM (NAD 83)
Pintail 23-26-35 Federal Com
Pintail 23-26-35 Federal Com 12H

424' FNL, 1919' FWL

OH

Plan: Plan 1



Standard Plan Report

09 January, 2026

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION

All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Project Eddy County, NM (NAD 83)	System Datum: Mean Sea Level
Map System: US State Plane 1983	
Geo Datum: North American Datum 1983	
Map Zone: New Mexico Eastern Zone	

Site Pintail 23-26-35 Federal Com	
Site Position:	Northing: 407,920.21 usft
From: Map	Easting: 562,221.12 usft
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "
	Latitude: 32.1214338
	Longitude: -104.2658752

Well Pintail 23-26-35 Federal Com 12H	
Well Position +N/-S 0.00 usft	Northing: 407,920.44 usft
+E/-W 0.00 usft	Easting: 562,241.12 usft
Position Uncertainty 0.00 usft	Wellhead Elevation: usft
Grid Convergence: 0.04 °	Ground Level: 3,300.50 usft
	Latitude: 32.1214344
	Longitude: -104.2658105

Wellbore OH	
Magnetics	
Model Name HDGM2026	Sample Date 1/31/2026
Declination (°) 6.67	Dip Angle (°) 59.57
	Field Strength (nT) 47,050.60000000

Design Plan 1	
Audit Notes:	
Version:	Phase: PLAN
	Tie On Depth: 0.00
Vertical Section:	
	Depth From (TVD) (usft) 0.00
	+N/-S (usft) 0.00
	+E/-W (usft) 0.00
	Direction (°) 180.36

Survey Tool Program	Date 1/9/2026
From (usft) 0.00	To (usft) 23,235.54
Survey (Wellbore) Plan 1 (OH)	Tool Name MWD+IFR1+MS
	Description OWSG MWD + IFR1 + Multi-Station Correction

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Plan Summary

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,139.61	14.79	282.71	2,131.42	20.88	-92.62	2.00	2.00	0.00	282.71	
7,237.39	14.79	282.71	7,060.25	307.16	-1,362.28	0.00	0.00	0.00	0.00	
8,157.49	90.00	184.81	7,634.00	-250.85	-1,559.83	10.00	8.17	-10.64	-97.64	
8,357.49	90.00	184.81	7,634.00	-450.15	-1,576.60	0.00	0.00	0.00	0.00	
8,607.49	90.00	179.81	7,634.00	-699.86	-1,586.68	2.00	0.00	0.00	-90.00	
12,780.49	90.00	179.81	7,634.00	-4,872.84	-1,572.84	0.00	0.00	0.00	0.00	
12,816.56	90.00	180.53	7,634.00	-4,908.91	-1,572.95	2.00	0.00	2.00	90.00	
15,424.53	90.00	180.53	7,634.00	-7,516.77	-1,597.14	0.00	0.00	0.00	0.00	
15,426.56	90.00	180.57	7,634.00	-7,518.80	-1,597.16	2.00	0.00	2.00	90.00	
18,058.17	90.00	180.57	7,634.00	-10,150.28	-1,623.44	0.00	0.00	0.00	0.00	
18,065.22	90.00	180.71	7,634.00	-10,157.33	-1,623.52	2.00	0.00	2.00	90.00	
23,235.54	90.00	180.71	7,634.00	-15,327.25	-1,687.87	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
0.00	0.00	0.00	0.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
431.18	0.00	0.00	431.18	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
Rustler													
500.00	0.00	0.00	500.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
1,076.05	0.00	0.00	1,076.05	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
Top of Salt													
1,100.00	0.00	0.00	1,100.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	407,920.44	562,241.12	32.1214344	-104.2658105	0.00	0.00	0.00	0.00
Start Build 2.00													
1,500.00	2.00	282.71	1,499.98	0.38	-1.70	407,920.82	562,239.42	32.1214354	-104.2658160	-0.37	2.00	2.00	0.00
1,600.00	4.00	282.71	1,599.84	1.53	-6.81	407,921.97	562,234.31	32.1214386	-104.2658325	-1.49	2.00	2.00	0.00

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,668.24	5.36	282.71	1,667.85	2.76	-12.24	407,923.20	562,228.88	32.1214420	-104.2658501	-2.68	2.00	2.00	0.00
Base of Salt													
1,700.00	6.00	282.71	1,699.45	3.45	-15.31	407,923.89	562,225.81	32.1214439	-104.2658600	-3.36	2.00	2.00	0.00
1,800.00	8.00	282.71	1,798.70	6.13	-27.20	407,926.57	562,213.92	32.1214513	-104.2658984	-5.96	2.00	2.00	0.00
1,881.80	9.64	282.71	1,879.53	8.89	-39.43	407,929.33	562,201.69	32.1214589	-104.2659379	-8.64	2.00	2.00	0.00
Anhydrite													
1,896.06	9.92	282.71	1,893.58	9.42	-41.79	407,929.86	562,199.33	32.1214603	-104.2659455	-9.16	2.00	2.00	0.00
Lamar													
1,900.00	10.00	282.71	1,897.47	9.57	-42.46	407,930.01	562,198.66	32.1214608	-104.2659477	-9.31	2.00	2.00	0.00
2,000.00	12.00	282.71	1,995.62	13.77	-61.07	407,934.21	562,180.05	32.1214723	-104.2660078	-13.39	2.00	2.00	0.00
2,021.85	12.44	282.71	2,016.98	14.79	-65.58	407,935.23	562,175.54	32.1214751	-104.2660224	-14.37	2.00	2.00	0.00
Bell Canyon													
2,100.00	14.00	282.71	2,093.06	18.72	-83.01	407,939.16	562,158.11	32.1214860	-104.2660787	-18.20	2.00	2.00	0.00
2,139.61	14.79	282.71	2,131.42	20.88	-92.62	407,941.32	562,148.50	32.1214919	-104.2661097	-20.30	2.00	2.00	0.00
Start hold at 2139.61 MD													
2,200.00	14.79	282.71	2,189.81	24.27	-107.66	407,944.71	562,133.46	32.1215013	-104.2661583	-23.60	0.00	0.00	0.00
2,300.00	14.79	282.71	2,286.50	29.89	-132.57	407,950.33	562,108.55	32.1215168	-104.2662387	-29.06	0.00	0.00	0.00
2,400.00	14.79	282.71	2,383.18	35.51	-157.47	407,955.95	562,083.65	32.1215322	-104.2663191	-34.52	0.00	0.00	0.00
2,500.00	14.79	282.71	2,479.87	41.12	-182.38	407,961.56	562,058.74	32.1215477	-104.2663996	-39.97	0.00	0.00	0.00
2,600.00	14.79	282.71	2,576.55	46.74	-207.28	407,967.18	562,033.84	32.1215632	-104.2664800	-45.43	0.00	0.00	0.00
2,700.00	14.79	282.71	2,673.24	52.35	-232.19	407,972.79	562,008.93	32.1215787	-104.2665605	-50.89	0.00	0.00	0.00
2,719.92	14.79	282.71	2,692.49	53.47	-237.15	407,973.91	562,003.97	32.1215818	-104.2665765	-51.98	0.00	0.00	0.00
Cherry Canyon													
2,800.00	14.79	282.71	2,769.92	57.97	-257.10	407,978.41	561,984.02	32.1215942	-104.2666409	-56.35	0.00	0.00	0.00
2,900.00	14.79	282.71	2,866.61	63.58	-282.00	407,984.02	561,959.12	32.1216096	-104.2667213	-61.81	0.00	0.00	0.00
3,000.00	14.79	282.71	2,963.30	69.20	-306.91	407,989.64	561,934.21	32.1216251	-104.2668018	-67.27	0.00	0.00	0.00
3,100.00	14.79	282.71	3,059.98	74.81	-331.82	407,995.25	561,909.30	32.1216406	-104.2668822	-72.73	0.00	0.00	0.00
3,200.00	14.79	282.71	3,156.67	80.43	-356.72	408,000.87	561,884.40	32.1216561	-104.2669627	-78.19	0.00	0.00	0.00
3,300.00	14.79	282.71	3,253.35	86.05	-381.63	408,006.49	561,859.49	32.1216716	-104.2670431	-83.65	0.00	0.00	0.00
3,400.00	14.79	282.71	3,350.04	91.66	-406.53	408,012.10	561,834.59	32.1216870	-104.2671235	-89.11	0.00	0.00	0.00
3,500.00	14.79	282.71	3,446.73	97.28	-431.44	408,017.72	561,809.68	32.1217025	-104.2672040	-94.56	0.00	0.00	0.00
3,600.00	14.79	282.71	3,543.41	102.89	-456.35	408,023.33	561,784.77	32.1217180	-104.2672844	-100.02	0.00	0.00	0.00
3,700.00	14.79	282.71	3,640.10	108.51	-481.25	408,028.95	561,759.87	32.1217335	-104.2673649	-105.48	0.00	0.00	0.00
3,800.00	14.79	282.71	3,736.78	114.12	-506.16	408,034.56	561,734.96	32.1217489	-104.2674453	-110.94	0.00	0.00	0.00
3,868.84	14.79	282.71	3,803.34	117.99	-523.30	408,038.43	561,717.82	32.1217596	-104.2675007	-114.70	0.00	0.00	0.00
Brushy Canyon													
3,900.00	14.79	282.71	3,833.47	119.74	-531.06	408,040.18	561,710.06	32.1217644	-104.2675258	-116.40	0.00	0.00	0.00
4,000.00	14.79	282.71	3,930.15	125.36	-555.97	408,045.80	561,685.15	32.1217799	-104.2676062	-121.86	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Well:	Pintail 23-26-35 Federal Com 12H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,100.00	14.79	282.71	4,026.84	130.97	-580.88	408,051.41	561,660.24	32.1217954	-104.2676866	-127.32	0.00	0.00	0.00
4,200.00	14.79	282.71	4,123.53	136.59	-605.78	408,057.03	561,635.34	32.1218109	-104.2677671	-132.78	0.00	0.00	0.00
4,300.00	14.79	282.71	4,220.21	142.20	-630.69	408,062.64	561,610.43	32.1218263	-104.2678475	-138.24	0.00	0.00	0.00
4,400.00	14.79	282.71	4,316.90	147.82	-655.59	408,068.26	561,585.53	32.1218418	-104.2679280	-143.70	0.00	0.00	0.00
4,500.00	14.79	282.71	4,413.58	153.43	-680.50	408,073.87	561,560.62	32.1218573	-104.2680084	-149.16	0.00	0.00	0.00
4,600.00	14.79	282.71	4,510.27	159.05	-705.41	408,079.49	561,535.71	32.1218728	-104.2680888	-154.61	0.00	0.00	0.00
4,700.00	14.79	282.71	4,606.96	164.67	-730.31	408,085.11	561,510.81	32.1218883	-104.2681693	-160.07	0.00	0.00	0.00
4,800.00	14.79	282.71	4,703.64	170.28	-755.22	408,090.72	561,485.90	32.1219037	-104.2682497	-165.53	0.00	0.00	0.00
4,900.00	14.79	282.71	4,800.33	175.90	-780.13	408,096.34	561,460.99	32.1219192	-104.2683302	-170.99	0.00	0.00	0.00
5,000.00	14.79	282.71	4,897.01	181.51	-805.03	408,101.95	561,436.09	32.1219347	-104.2684106	-176.45	0.00	0.00	0.00
5,100.00	14.79	282.71	4,993.70	187.13	-829.94	408,107.57	561,411.18	32.1219502	-104.2684910	-181.91	0.00	0.00	0.00
5,200.00	14.79	282.71	5,090.38	192.74	-854.84	408,113.18	561,386.28	32.1219656	-104.2685715	-187.37	0.00	0.00	0.00
5,300.00	14.79	282.71	5,187.07	198.36	-879.75	408,118.80	561,361.37	32.1219811	-104.2686519	-192.83	0.00	0.00	0.00
5,400.00	14.79	282.71	5,283.76	203.97	-904.66	408,124.41	561,336.46	32.1219966	-104.2687324	-198.29	0.00	0.00	0.00
5,500.00	14.79	282.71	5,380.44	209.59	-929.56	408,130.03	561,311.56	32.1220121	-104.2688128	-203.75	0.00	0.00	0.00
5,600.00	14.79	282.71	5,477.13	215.21	-954.47	408,135.65	561,286.65	32.1220276	-104.2688932	-209.20	0.00	0.00	0.00
5,609.57	14.79	282.71	5,486.38	215.74	-956.85	408,136.18	561,284.27	32.1220290	-104.2689009	-209.73	0.00	0.00	0.00
Bone Spring Lime													
5,700.00	14.79	282.71	5,573.81	220.82	-979.37	408,141.26	561,261.75	32.1220430	-104.2689737	-214.66	0.00	0.00	0.00
5,764.50	14.79	282.71	5,636.18	224.44	-995.44	408,144.88	561,245.68	32.1220530	-104.2690256	-218.18	0.00	0.00	0.00
Leonard Shale													
5,800.00	14.79	282.71	5,670.50	226.44	-1,004.28	408,146.88	561,236.84	32.1220585	-104.2690541	-220.12	0.00	0.00	0.00
5,900.00	14.79	282.71	5,767.19	232.05	-1,029.19	408,152.49	561,211.93	32.1220740	-104.2691346	-225.58	0.00	0.00	0.00
6,000.00	14.79	282.71	5,863.87	237.67	-1,054.09	408,158.11	561,187.03	32.1220895	-104.2692150	-231.04	0.00	0.00	0.00
6,100.00	14.79	282.71	5,960.56	243.28	-1,079.00	408,163.72	561,162.12	32.1221050	-104.2692955	-236.50	0.00	0.00	0.00
6,200.00	14.79	282.71	6,057.24	248.90	-1,103.91	408,169.34	561,137.21	32.1221204	-104.2693759	-241.96	0.00	0.00	0.00
6,300.00	14.79	282.71	6,153.93	254.52	-1,128.81	408,174.96	561,112.31	32.1221359	-104.2694563	-247.42	0.00	0.00	0.00
6,400.00	14.79	282.71	6,250.61	260.13	-1,153.72	408,180.57	561,087.40	32.1221514	-104.2695368	-252.88	0.00	0.00	0.00
6,500.00	14.79	282.71	6,347.30	265.75	-1,178.62	408,186.19	561,062.50	32.1221669	-104.2696172	-258.34	0.00	0.00	0.00
6,525.36	14.79	282.71	6,371.82	267.17	-1,184.94	408,187.61	561,056.18	32.1221708	-104.2696376	-259.72	0.00	0.00	0.00
1st Bone Spring Sand													
6,600.00	14.79	282.71	6,443.99	271.36	-1,203.53	408,191.80	561,037.59	32.1221823	-104.2696977	-263.79	0.00	0.00	0.00
6,700.00	14.79	282.71	6,540.67	276.98	-1,228.44	408,197.42	561,012.68	32.1221978	-104.2697781	-269.25	0.00	0.00	0.00
6,701.86	14.79	282.71	6,542.47	277.08	-1,228.90	408,197.52	561,012.22	32.1221981	-104.2697796	-269.36	0.00	0.00	0.00
2nd Bone Spring Shale													
6,800.00	14.79	282.71	6,637.36	282.59	-1,253.34	408,203.03	560,987.78	32.1222133	-104.2698585	-274.71	0.00	0.00	0.00
6,900.00	14.79	282.71	6,734.04	288.21	-1,278.25	408,208.65	560,962.87	32.1222288	-104.2699390	-280.17	0.00	0.00	0.00
7,000.00	14.79	282.71	6,830.73	293.82	-1,303.15	408,214.26	560,937.97	32.1222442	-104.2700194	-285.63	0.00	0.00	0.00
7,079.60	14.79	282.71	6,907.69	298.29	-1,322.98	408,218.73	560,918.14	32.1222566	-104.2700835	-289.98	0.00	0.00	0.00

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2nd Bone Spring Sand													
7,100.00	14.79	282.71	6,927.42	299.44	-1,328.06	408,219.88	560,913.06	32.1222597	-104.2700999	-291.09	0.00	0.00	0.00
7,200.00	14.79	282.71	7,024.10	305.06	-1,352.97	408,225.50	560,888.15	32.1222752	-104.2701803	-296.55	0.00	0.00	0.00
7,237.39	14.79	282.71	7,060.25	307.16	-1,362.28	408,227.60	560,878.84	32.1222810	-104.2702104	-298.59	0.00	0.00	0.00
KOP - Start 10.00°/100' DLS													
7,250.00	14.68	277.77	7,072.45	307.73	-1,365.43	408,228.17	560,875.69	32.1222826	-104.2702206	-299.14	10.00	-0.92	-39.16
7,295.36	15.13	260.15	7,116.31	307.49	-1,376.96	408,227.93	560,864.16	32.1222819	-104.2702578	-298.83	10.00	1.00	-38.84
FTP (Pintail 23-26-35 FC 12H) 100FNL & 330FWL													
7,300.00	15.25	258.44	7,120.78	307.26	-1,378.16	408,227.70	560,862.96	32.1222813	-104.2702617	-298.60	10.00	2.59	-36.87
7,350.00	17.28	242.04	7,168.80	302.46	-1,391.17	408,222.90	560,849.95	32.1222681	-104.2703037	-293.71	10.00	4.06	-32.80
7,400.00	20.33	229.70	7,216.15	293.36	-1,404.36	408,213.80	560,836.76	32.1222431	-104.2703463	-284.53	10.00	6.11	-24.68
7,450.00	24.03	220.74	7,262.45	280.01	-1,417.64	408,200.45	560,823.48	32.1222065	-104.2703893	-271.10	10.00	7.38	-17.94
7,452.93	24.26	220.29	7,265.13	279.10	-1,418.42	408,199.54	560,822.70	32.1222040	-104.2703918	-270.19	10.00	7.86	-15.13
3rd Bone Spring Carb													
7,500.00	28.11	214.13	7,307.37	262.54	-1,430.90	408,182.98	560,810.22	32.1221585	-104.2704321	-253.55	10.00	8.18	-13.08
7,550.00	32.43	209.12	7,350.55	241.07	-1,444.04	408,161.51	560,797.08	32.1220995	-104.2704746	-231.99	10.00	8.64	-10.02
7,600.00	36.90	205.20	7,391.67	215.76	-1,456.96	408,136.20	560,784.16	32.1220299	-104.2705164	-206.60	10.00	8.95	-7.86
7,650.00	41.48	202.02	7,430.42	186.81	-1,469.57	408,107.25	560,771.55	32.1219503	-104.2705572	-177.57	10.00	9.16	-6.36
7,700.00	46.13	199.37	7,466.49	154.43	-1,481.76	408,074.87	560,759.36	32.1218614	-104.2705966	-145.12	10.00	9.31	-5.29
7,750.00	50.84	197.11	7,499.62	118.88	-1,493.45	408,039.32	560,747.67	32.1217636	-104.2706345	-109.49	10.00	9.41	-4.52
7,800.00	55.58	195.13	7,529.56	80.42	-1,504.55	408,000.86	560,736.57	32.1216579	-104.2706704	-70.96	10.00	9.49	-3.95
7,850.00	60.35	193.37	7,556.07	39.35	-1,514.96	407,959.79	560,726.16	32.1215450	-104.2707041	-29.83	10.00	9.54	-3.53
7,900.00	65.15	191.77	7,578.96	-4.03	-1,524.62	407,916.41	560,716.50	32.1214258	-104.2707354	13.61	10.00	9.59	-3.21
7,950.00	69.96	190.29	7,598.05	-49.37	-1,533.44	407,871.07	560,707.68	32.1213012	-104.2707640	59.01	10.00	9.62	-2.97
8,000.00	74.78	188.89	7,613.19	-96.34	-1,541.37	407,824.10	560,699.75	32.1211721	-104.2707897	106.03	10.00	9.64	-2.79
8,002.31	75.00	188.83	7,613.79	-98.55	-1,541.71	407,821.89	560,699.41	32.1211660	-104.2707908	108.23	10.00	9.65	-2.72
75° Inc - 8002.31' MD/7613.79' TVD													
8,050.00	79.61	187.56	7,624.27	-144.58	-1,548.34	407,775.86	560,692.78	32.1210395	-104.2708123	154.31	10.00	9.66	-2.66
8,100.00	84.44	186.27	7,631.21	-193.72	-1,554.30	407,726.72	560,686.82	32.1209044	-104.2708316	203.49	10.00	9.67	-2.58
8,150.00	89.28	185.00	7,633.95	-243.39	-1,559.19	407,677.05	560,681.93	32.1207679	-104.2708475	253.18	10.00	9.67	-2.54
8,157.49	90.00	184.81	7,634.00	-250.85	-1,559.83	407,669.59	560,681.29	32.1207474	-104.2708496	260.65	9.99	9.67	-2.53
LP - 8157.49' MD													
8,200.00	90.00	184.81	7,634.00	-293.21	-1,563.40	407,627.23	560,677.72	32.1206309	-104.2708612	303.03	0.00	0.00	0.00
8,300.00	90.00	184.81	7,634.00	-392.86	-1,571.78	407,527.58	560,669.34	32.1203570	-104.2708885	402.73	0.00	0.00	0.00
8,357.49	90.00	184.81	7,634.00	-450.15	-1,576.61	407,470.29	560,664.51	32.1201995	-104.2709041	460.05	0.00	0.00	0.00
Start Turn 2.00													
8,400.00	90.00	183.96	7,634.00	-492.53	-1,579.86	407,427.91	560,661.26	32.1200830	-104.2709147	502.45	2.00	0.00	-2.00
8,500.00	90.00	181.96	7,634.00	-592.40	-1,585.02	407,328.04	560,656.10	32.1198085	-104.2709316	602.34	2.00	0.00	-2.00

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,607.49	90.00	179.81	7,634.00	-699.87	-1,586.68	407,220.57	560,654.44	32.1195131	-104.2709371	709.82	2.00	0.00	-2.00
Start hold at 8607.49 MD													
8,700.00	90.00	179.81	7,634.00	-792.38	-1,586.37	407,128.06	560,654.75	32.1192588	-104.2709363	802.33	0.00	0.00	0.00
8,800.00	90.00	179.81	7,634.00	-892.38	-1,586.04	407,028.06	560,655.08	32.1189839	-104.2709354	902.32	0.00	0.00	0.00
8,900.00	90.00	179.81	7,634.00	-992.38	-1,585.71	406,928.06	560,655.41	32.1187090	-104.2709345	1,002.32	0.00	0.00	0.00
9,000.00	90.00	179.81	7,634.00	-1,092.37	-1,585.38	406,828.07	560,655.74	32.1184341	-104.2709337	1,102.31	0.00	0.00	0.00
9,100.00	90.00	179.81	7,634.00	-1,192.37	-1,585.04	406,728.07	560,656.08	32.1181592	-104.2709328	1,202.31	0.00	0.00	0.00
9,200.00	90.00	179.81	7,634.00	-1,292.37	-1,584.71	406,628.07	560,656.41	32.1178843	-104.2709319	1,302.31	0.00	0.00	0.00
9,300.00	90.00	179.81	7,634.00	-1,392.37	-1,584.38	406,528.07	560,656.74	32.1176094	-104.2709310	1,402.30	0.00	0.00	0.00
9,400.00	90.00	179.81	7,634.00	-1,492.37	-1,584.05	406,428.07	560,657.07	32.1173345	-104.2709301	1,502.30	0.00	0.00	0.00
9,500.00	90.00	179.81	7,634.00	-1,592.37	-1,583.72	406,328.07	560,657.40	32.1170596	-104.2709292	1,602.29	0.00	0.00	0.00
9,600.00	90.00	179.81	7,634.00	-1,692.37	-1,583.39	406,228.07	560,657.73	32.1167847	-104.2709284	1,702.29	0.00	0.00	0.00
9,700.00	90.00	179.81	7,634.00	-1,792.37	-1,583.06	406,128.07	560,658.06	32.1165098	-104.2709275	1,802.28	0.00	0.00	0.00
9,800.00	90.00	179.81	7,634.00	-1,892.37	-1,582.72	406,028.07	560,658.40	32.1162350	-104.2709266	1,902.28	0.00	0.00	0.00
9,900.00	90.00	179.81	7,634.00	-1,992.37	-1,582.39	405,928.07	560,658.73	32.1159601	-104.2709257	2,002.27	0.00	0.00	0.00
10,000.00	90.00	179.81	7,634.00	-2,092.37	-1,582.06	405,828.07	560,659.06	32.1156852	-104.2709248	2,102.27	0.00	0.00	0.00
10,100.00	90.00	179.81	7,634.00	-2,192.37	-1,581.73	405,728.07	560,659.39	32.1154103	-104.2709239	2,202.26	0.00	0.00	0.00
10,200.00	90.00	179.81	7,634.00	-2,292.37	-1,581.40	405,628.07	560,659.72	32.1151354	-104.2709231	2,302.26	0.00	0.00	0.00
10,300.00	90.00	179.81	7,634.00	-2,392.37	-1,581.07	405,528.07	560,660.05	32.1148605	-104.2709222	2,402.25	0.00	0.00	0.00
10,400.00	90.00	179.81	7,634.00	-2,492.37	-1,580.73	405,428.07	560,660.39	32.1145856	-104.2709213	2,502.25	0.00	0.00	0.00
10,500.00	90.00	179.81	7,634.00	-2,592.37	-1,580.40	405,328.07	560,660.72	32.1143107	-104.2709204	2,602.25	0.00	0.00	0.00
10,600.00	90.00	179.81	7,634.00	-2,692.37	-1,580.07	405,228.07	560,661.05	32.1140358	-104.2709195	2,702.24	0.00	0.00	0.00
10,700.00	90.00	179.81	7,634.00	-2,792.37	-1,579.74	405,128.07	560,661.38	32.1137609	-104.2709186	2,802.24	0.00	0.00	0.00
10,800.00	90.00	179.81	7,634.00	-2,892.36	-1,579.41	405,028.08	560,661.71	32.1134860	-104.2709178	2,902.23	0.00	0.00	0.00
10,900.00	90.00	179.81	7,634.00	-2,992.36	-1,579.08	404,928.08	560,662.04	32.1132111	-104.2709169	3,002.23	0.00	0.00	0.00
11,000.00	90.00	179.81	7,634.00	-3,092.36	-1,578.74	404,828.08	560,662.38	32.1129362	-104.2709160	3,102.22	0.00	0.00	0.00
11,100.00	90.00	179.81	7,634.00	-3,192.36	-1,578.41	404,728.08	560,662.71	32.1126613	-104.2709151	3,202.22	0.00	0.00	0.00
11,200.00	90.00	179.81	7,634.00	-3,292.36	-1,578.08	404,628.08	560,663.04	32.1123864	-104.2709142	3,302.21	0.00	0.00	0.00
11,300.00	90.00	179.81	7,634.00	-3,392.36	-1,577.75	404,528.08	560,663.37	32.1121115	-104.2709133	3,402.21	0.00	0.00	0.00
11,400.00	90.00	179.81	7,634.00	-3,492.36	-1,577.42	404,428.08	560,663.70	32.1118366	-104.2709124	3,502.20	0.00	0.00	0.00
11,500.00	90.00	179.81	7,634.00	-3,592.36	-1,577.09	404,328.08	560,664.03	32.1115618	-104.2709116	3,602.20	0.00	0.00	0.00
11,600.00	90.00	179.81	7,634.00	-3,692.36	-1,576.75	404,228.08	560,664.37	32.1112869	-104.2709107	3,702.19	0.00	0.00	0.00
11,700.00	90.00	179.81	7,634.00	-3,792.36	-1,576.42	404,128.08	560,664.70	32.1110120	-104.2709098	3,802.19	0.00	0.00	0.00
11,800.00	90.00	179.81	7,634.00	-3,892.36	-1,576.09	404,028.08	560,665.03	32.1107371	-104.2709089	3,902.19	0.00	0.00	0.00
11,900.00	90.00	179.81	7,634.00	-3,992.36	-1,575.76	403,928.08	560,665.36	32.1104622	-104.2709080	4,002.18	0.00	0.00	0.00
12,000.00	90.00	179.81	7,634.00	-4,092.36	-1,575.43	403,828.08	560,665.69	32.1101873	-104.2709071	4,102.18	0.00	0.00	0.00
12,100.00	90.00	179.81	7,634.00	-4,192.36	-1,575.10	403,728.08	560,666.02	32.1099124	-104.2709063	4,202.17	0.00	0.00	0.00
12,200.00	90.00	179.81	7,634.00	-4,292.36	-1,574.76	403,628.08	560,666.36	32.1096375	-104.2709054	4,302.17	0.00	0.00	0.00

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.00	90.00	179.81	7,634.00	-4,392.36	-1,574.43	403,528.08	560,666.69	32.1093626	-104.2709045	4,402.16	0.00	0.00	0.00
12,400.00	90.00	179.81	7,634.00	-4,492.36	-1,574.10	403,428.08	560,667.02	32.1090877	-104.2709036	4,502.16	0.00	0.00	0.00
12,500.00	90.00	179.81	7,634.00	-4,592.36	-1,573.77	403,328.08	560,667.35	32.1088128	-104.2709027	4,602.15	0.00	0.00	0.00
12,600.00	90.00	179.81	7,634.00	-4,692.36	-1,573.44	403,228.08	560,667.68	32.1085379	-104.2709018	4,702.15	0.00	0.00	0.00
12,700.00	90.00	179.81	7,634.00	-4,792.35	-1,573.11	403,128.09	560,668.01	32.1082630	-104.2709010	4,802.14	0.00	0.00	0.00
12,780.49	90.00	179.81	7,634.00	-4,872.84	-1,572.84	403,047.60	560,668.28	32.1080418	-104.2709002	4,882.63	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00 - IP1 (Pintail 23-26-35 FC 12H)													
12,800.00	90.00	180.20	7,634.00	-4,892.35	-1,572.84	403,028.09	560,668.28	32.1079881	-104.2709003	4,902.14	2.00	0.00	2.00
12,816.56	90.00	180.53	7,634.00	-4,908.91	-1,572.95	403,011.53	560,668.17	32.1079426	-104.2709007	4,918.70	2.00	0.00	2.00
Start hold at 12816.56 MD													
12,900.00	90.00	180.53	7,634.00	-4,992.35	-1,573.72	402,928.09	560,667.40	32.1077132	-104.2709033	5,002.14	0.00	0.00	0.00
13,000.00	90.00	180.53	7,634.00	-5,092.35	-1,574.65	402,828.09	560,666.47	32.1074384	-104.2709065	5,102.14	0.00	0.00	0.00
13,100.00	90.00	180.53	7,634.00	-5,192.34	-1,575.58	402,728.10	560,665.54	32.1071635	-104.2709097	5,202.14	0.00	0.00	0.00
13,200.00	90.00	180.53	7,634.00	-5,292.34	-1,576.50	402,628.10	560,664.62	32.1068886	-104.2709129	5,302.14	0.00	0.00	0.00
13,300.00	90.00	180.53	7,634.00	-5,392.33	-1,577.43	402,528.11	560,663.69	32.1066137	-104.2709160	5,402.14	0.00	0.00	0.00
13,400.00	90.00	180.53	7,634.00	-5,492.33	-1,578.36	402,428.11	560,662.76	32.1063388	-104.2709192	5,502.14	0.00	0.00	0.00
13,500.00	90.00	180.53	7,634.00	-5,592.32	-1,579.29	402,328.12	560,661.83	32.1060639	-104.2709224	5,602.14	0.00	0.00	0.00
13,600.00	90.00	180.53	7,634.00	-5,692.32	-1,580.22	402,228.12	560,660.91	32.1057891	-104.2709256	5,702.14	0.00	0.00	0.00
13,700.00	90.00	180.53	7,634.00	-5,792.32	-1,581.14	402,128.12	560,659.98	32.1055142	-104.2709288	5,802.14	0.00	0.00	0.00
13,800.00	90.00	180.53	7,634.00	-5,892.31	-1,582.07	402,028.13	560,659.05	32.1052393	-104.2709320	5,902.14	0.00	0.00	0.00
13,900.00	90.00	180.53	7,634.00	-5,992.31	-1,583.00	401,928.13	560,658.12	32.1049644	-104.2709351	6,002.14	0.00	0.00	0.00
14,000.00	90.00	180.53	7,634.00	-6,092.30	-1,583.93	401,828.14	560,657.19	32.1046895	-104.2709383	6,102.13	0.00	0.00	0.00
14,100.00	90.00	180.53	7,634.00	-6,192.30	-1,584.85	401,728.14	560,656.27	32.1044147	-104.2709415	6,202.13	0.00	0.00	0.00
14,200.00	90.00	180.53	7,634.00	-6,292.29	-1,585.78	401,628.15	560,655.34	32.1041398	-104.2709447	6,302.13	0.00	0.00	0.00
14,300.00	90.00	180.53	7,634.00	-6,392.29	-1,586.71	401,528.15	560,654.41	32.1038649	-104.2709479	6,402.13	0.00	0.00	0.00
14,400.00	90.00	180.53	7,634.00	-6,492.29	-1,587.64	401,428.15	560,653.48	32.1035900	-104.2709511	6,502.13	0.00	0.00	0.00
14,500.00	90.00	180.53	7,634.00	-6,592.28	-1,588.56	401,328.16	560,652.56	32.1033151	-104.2709542	6,602.13	0.00	0.00	0.00
14,600.00	90.00	180.53	7,634.00	-6,692.28	-1,589.49	401,228.16	560,651.63	32.1030402	-104.2709574	6,702.13	0.00	0.00	0.00
14,700.00	90.00	180.53	7,634.00	-6,792.27	-1,590.42	401,128.17	560,650.70	32.1027654	-104.2709606	6,802.13	0.00	0.00	0.00
14,800.00	90.00	180.53	7,634.00	-6,892.27	-1,591.35	401,028.17	560,649.77	32.1024905	-104.2709638	6,902.13	0.00	0.00	0.00
14,900.00	90.00	180.53	7,634.00	-6,992.26	-1,592.27	400,928.18	560,648.85	32.1022156	-104.2709670	7,002.13	0.00	0.00	0.00
15,000.00	90.00	180.53	7,634.00	-7,092.26	-1,593.20	400,828.18	560,647.92	32.1019407	-104.2709702	7,102.13	0.00	0.00	0.00
15,100.00	90.00	180.53	7,634.00	-7,192.26	-1,594.13	400,728.18	560,646.99	32.1016658	-104.2709733	7,202.13	0.00	0.00	0.00
15,200.00	90.00	180.53	7,634.00	-7,292.25	-1,595.06	400,628.19	560,646.06	32.1013909	-104.2709765	7,302.13	0.00	0.00	0.00
15,300.00	90.00	180.53	7,634.00	-7,392.25	-1,595.98	400,528.19	560,645.14	32.1011161	-104.2709797	7,402.13	0.00	0.00	0.00
15,400.00	90.00	180.53	7,634.00	-7,492.24	-1,596.91	400,428.20	560,644.21	32.1008412	-104.2709829	7,502.13	0.00	0.00	0.00
15,424.53	90.00	180.53	7,634.00	-7,516.77	-1,597.14	400,403.67	560,643.98	32.1007738	-104.2709837	7,526.66	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00 - IP2 (Pintail 23-26-35 FC 12H)													

Total Directional Planned Survey Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Well:	Pintail 23-26-35 Federal Com 12H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	.Total Directional Production DB

Planned Survey													
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)
15,426.56	90.00	180.57	7,634.00	-7,518.80	-1,597.16	400,401.64	560,643.96	32.1007682	-104.2709837	7,528.69	2.00	0.00	2.00
Start hold at 15426.56 MD													
15,500.00	90.00	180.57	7,634.00	-7,592.24	-1,597.89	400,328.20	560,643.23	32.1005663	-104.2709862	7,602.13	0.00	0.00	0.00
15,600.00	90.00	180.57	7,634.00	-7,692.23	-1,598.89	400,228.21	560,642.23	32.1002914	-104.2709896	7,702.13	0.00	0.00	0.00
15,700.00	90.00	180.57	7,634.00	-7,792.23	-1,599.89	400,128.21	560,641.23	32.1000165	-104.2709931	7,802.13	0.00	0.00	0.00
15,800.00	90.00	180.57	7,634.00	-7,892.22	-1,600.89	400,028.22	560,640.23	32.0997417	-104.2709965	7,902.13	0.00	0.00	0.00
15,900.00	90.00	180.57	7,634.00	-7,992.22	-1,601.89	399,928.22	560,639.23	32.0994668	-104.2709999	8,002.13	0.00	0.00	0.00
16,000.00	90.00	180.57	7,634.00	-8,092.21	-1,602.89	399,828.23	560,638.23	32.0991919	-104.2710033	8,102.12	0.00	0.00	0.00
16,100.00	90.00	180.57	7,634.00	-8,192.21	-1,603.88	399,728.23	560,637.24	32.0989170	-104.2710067	8,202.12	0.00	0.00	0.00
16,200.00	90.00	180.57	7,634.00	-8,292.20	-1,604.88	399,628.24	560,636.24	32.0986421	-104.2710101	8,302.12	0.00	0.00	0.00
16,300.00	90.00	180.57	7,634.00	-8,392.20	-1,605.88	399,528.24	560,635.24	32.0983673	-104.2710135	8,402.12	0.00	0.00	0.00
16,400.00	90.00	180.57	7,634.00	-8,492.19	-1,606.88	399,428.25	560,634.24	32.0980924	-104.2710169	8,502.12	0.00	0.00	0.00
16,500.00	90.00	180.57	7,634.00	-8,592.19	-1,607.88	399,328.25	560,633.24	32.0978175	-104.2710204	8,602.12	0.00	0.00	0.00
16,600.00	90.00	180.57	7,634.00	-8,692.18	-1,608.88	399,228.26	560,632.24	32.0975426	-104.2710238	8,702.12	0.00	0.00	0.00
16,700.00	90.00	180.57	7,634.00	-8,792.18	-1,609.88	399,128.26	560,631.24	32.0972677	-104.2710272	8,802.12	0.00	0.00	0.00
16,800.00	90.00	180.57	7,634.00	-8,892.17	-1,610.88	399,028.27	560,630.24	32.0969928	-104.2710306	8,902.12	0.00	0.00	0.00
16,900.00	90.00	180.57	7,634.00	-8,992.17	-1,611.87	398,928.27	560,629.25	32.0967180	-104.2710340	9,002.12	0.00	0.00	0.00
17,000.00	90.00	180.57	7,634.00	-9,092.16	-1,612.87	398,828.28	560,628.25	32.0964431	-104.2710374	9,102.12	0.00	0.00	0.00
17,100.00	90.00	180.57	7,634.00	-9,192.16	-1,613.87	398,728.28	560,627.25	32.0961682	-104.2710408	9,202.12	0.00	0.00	0.00
17,200.00	90.00	180.57	7,634.00	-9,292.15	-1,614.87	398,628.29	560,626.25	32.0958933	-104.2710442	9,302.12	0.00	0.00	0.00
17,300.00	90.00	180.57	7,634.00	-9,392.15	-1,615.87	398,528.29	560,625.25	32.0956184	-104.2710476	9,402.12	0.00	0.00	0.00
17,400.00	90.00	180.57	7,634.00	-9,492.14	-1,616.87	398,428.30	560,624.25	32.0953436	-104.2710511	9,502.11	0.00	0.00	0.00
17,500.00	90.00	180.57	7,634.00	-9,592.14	-1,617.87	398,328.30	560,623.25	32.0950687	-104.2710545	9,602.11	0.00	0.00	0.00
17,600.00	90.00	180.57	7,634.00	-9,692.13	-1,618.86	398,228.31	560,622.26	32.0947938	-104.2710579	9,702.11	0.00	0.00	0.00
17,700.00	90.00	180.57	7,634.00	-9,792.13	-1,619.86	398,128.31	560,621.26	32.0945189	-104.2710613	9,802.11	0.00	0.00	0.00
17,800.00	90.00	180.57	7,634.00	-9,892.12	-1,620.86	398,028.32	560,620.26	32.0942440	-104.2710647	9,902.11	0.00	0.00	0.00
17,900.00	90.00	180.57	7,634.00	-9,992.12	-1,621.86	397,928.32	560,619.26	32.0939692	-104.2710681	10,002.11	0.00	0.00	0.00
18,000.00	90.00	180.57	7,634.00	-10,092.11	-1,622.86	397,828.33	560,618.26	32.0936943	-104.2710715	10,102.11	0.00	0.00	0.00
18,058.17	90.00	180.57	7,634.00	-10,150.28	-1,623.44	397,770.16	560,617.68	32.0935344	-104.2710735	10,160.28	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00 - IP3 (Pintail 23-26-35 FC 12H)													
18,065.22	90.00	180.71	7,634.00	-10,157.33	-1,623.52	397,763.11	560,617.60	32.0935150	-104.2710738	10,167.33	2.00	0.00	2.00
Start hold at 18065.22 MD													
18,100.00	90.00	180.71	7,634.00	-10,192.11	-1,623.95	397,728.33	560,617.17	32.0934194	-104.2710752	10,202.11	0.00	0.00	0.00
18,200.00	90.00	180.71	7,634.00	-10,292.10	-1,625.20	397,628.34	560,615.92	32.0931445	-104.2710794	10,302.11	0.00	0.00	0.00
18,300.00	90.00	180.71	7,634.00	-10,392.09	-1,626.44	397,528.35	560,614.68	32.0928697	-104.2710837	10,402.11	0.00	0.00	0.00
18,400.00	90.00	180.71	7,634.00	-10,492.08	-1,627.69	397,428.36	560,613.43	32.0925948	-104.2710879	10,502.10	0.00	0.00	0.00
18,500.00	90.00	180.71	7,634.00	-10,592.08	-1,628.93	397,328.36	560,612.19	32.0923199	-104.2710921	10,602.10	0.00	0.00	0.00
18,600.00	90.00	180.71	7,634.00	-10,692.07	-1,630.18	397,228.37	560,610.94	32.0920450	-104.2710963	10,702.10	0.00	0.00	0.00

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,700.00	90.00	180.71	7,634.00	-10,792.06	-1,631.42	397,128.38	560,609.70	32.0917702	-104.2711005	10,802.10	0.00	0.00	0.00
18,800.00	90.00	180.71	7,634.00	-10,892.05	-1,632.66	397,028.39	560,608.46	32.0914953	-104.2711047	10,902.10	0.00	0.00	0.00
18,900.00	90.00	180.71	7,634.00	-10,992.05	-1,633.91	396,928.40	560,607.21	32.0912204	-104.2711089	11,002.09	0.00	0.00	0.00
19,000.00	90.00	180.71	7,634.00	-11,092.04	-1,635.15	396,828.40	560,605.97	32.0909455	-104.2711131	11,102.09	0.00	0.00	0.00
19,100.00	90.00	180.71	7,634.00	-11,192.03	-1,636.40	396,728.41	560,604.72	32.0906707	-104.2711173	11,202.09	0.00	0.00	0.00
19,200.00	90.00	180.71	7,634.00	-11,292.02	-1,637.64	396,628.42	560,603.48	32.0903958	-104.2711215	11,302.09	0.00	0.00	0.00
19,300.00	90.00	180.71	7,634.00	-11,392.01	-1,638.89	396,528.43	560,602.23	32.0901209	-104.2711257	11,402.09	0.00	0.00	0.00
19,400.00	90.00	180.71	7,634.00	-11,492.01	-1,640.13	396,428.43	560,600.99	32.0898461	-104.2711299	11,502.08	0.00	0.00	0.00
19,500.00	90.00	180.71	7,634.00	-11,592.00	-1,641.38	396,328.44	560,599.74	32.0895712	-104.2711341	11,602.08	0.00	0.00	0.00
19,600.00	90.00	180.71	7,634.00	-11,691.99	-1,642.62	396,228.45	560,598.50	32.0892963	-104.2711383	11,702.08	0.00	0.00	0.00
19,700.00	90.00	180.71	7,634.00	-11,791.98	-1,643.87	396,128.46	560,597.25	32.0890214	-104.2711425	11,802.08	0.00	0.00	0.00
19,800.00	90.00	180.71	7,634.00	-11,891.98	-1,645.11	396,028.46	560,596.01	32.0887466	-104.2711467	11,902.08	0.00	0.00	0.00
19,900.00	90.00	180.71	7,634.00	-11,991.97	-1,646.36	395,928.47	560,594.76	32.0884717	-104.2711509	12,002.08	0.00	0.00	0.00
20,000.00	90.00	180.71	7,634.00	-12,091.96	-1,647.60	395,828.48	560,593.52	32.0881968	-104.2711551	12,102.07	0.00	0.00	0.00
20,100.00	90.00	180.71	7,634.00	-12,191.95	-1,648.84	395,728.49	560,592.28	32.0879219	-104.2711593	12,202.07	0.00	0.00	0.00
20,200.00	90.00	180.71	7,634.00	-12,291.94	-1,650.09	395,628.50	560,591.03	32.0876471	-104.2711636	12,302.07	0.00	0.00	0.00
20,300.00	90.00	180.71	7,634.00	-12,391.94	-1,651.33	395,528.50	560,589.79	32.0873722	-104.2711678	12,402.07	0.00	0.00	0.00
20,400.00	90.00	180.71	7,634.00	-12,491.93	-1,652.58	395,428.51	560,588.54	32.0870973	-104.2711720	12,502.07	0.00	0.00	0.00
20,500.00	90.00	180.71	7,634.00	-12,591.92	-1,653.82	395,328.52	560,587.30	32.0868224	-104.2711762	12,602.06	0.00	0.00	0.00
20,600.00	90.00	180.71	7,634.00	-12,691.91	-1,655.07	395,228.53	560,586.05	32.0865476	-104.2711804	12,702.06	0.00	0.00	0.00
20,700.00	90.00	180.71	7,634.00	-12,791.91	-1,656.31	395,128.53	560,584.81	32.0862727	-104.2711846	12,802.06	0.00	0.00	0.00
20,800.00	90.00	180.71	7,634.00	-12,891.90	-1,657.56	395,028.54	560,583.56	32.0859978	-104.2711888	12,902.06	0.00	0.00	0.00
20,900.00	90.00	180.71	7,634.00	-12,991.89	-1,658.80	394,928.55	560,582.32	32.0857230	-104.2711930	13,002.06	0.00	0.00	0.00
21,000.00	90.00	180.71	7,634.00	-13,091.88	-1,660.05	394,828.56	560,581.07	32.0854481	-104.2711972	13,102.05	0.00	0.00	0.00
21,100.00	90.00	180.71	7,634.00	-13,191.87	-1,661.29	394,728.57	560,579.83	32.0851732	-104.2712014	13,202.05	0.00	0.00	0.00
21,200.00	90.00	180.71	7,634.00	-13,291.87	-1,662.54	394,628.57	560,578.58	32.0848983	-104.2712056	13,302.05	0.00	0.00	0.00
21,300.00	90.00	180.71	7,634.00	-13,391.86	-1,663.78	394,528.58	560,577.34	32.0846235	-104.2712098	13,402.05	0.00	0.00	0.00
21,400.00	90.00	180.71	7,634.00	-13,491.85	-1,665.02	394,428.59	560,576.10	32.0843486	-104.2712140	13,502.05	0.00	0.00	0.00
21,500.00	90.00	180.71	7,634.00	-13,591.84	-1,666.27	394,328.60	560,574.85	32.0840737	-104.2712182	13,602.05	0.00	0.00	0.00
21,600.00	90.00	180.71	7,634.00	-13,691.84	-1,667.51	394,228.60	560,573.61	32.0837988	-104.2712224	13,702.04	0.00	0.00	0.00
21,700.00	90.00	180.71	7,634.00	-13,791.83	-1,668.76	394,128.61	560,572.36	32.0835240	-104.2712266	13,802.04	0.00	0.00	0.00
21,800.00	90.00	180.71	7,634.00	-13,891.82	-1,670.00	394,028.62	560,571.12	32.0832491	-104.2712308	13,902.04	0.00	0.00	0.00
21,900.00	90.00	180.71	7,634.00	-13,991.81	-1,671.25	393,928.63	560,569.87	32.0829742	-104.2712350	14,002.04	0.00	0.00	0.00
22,000.00	90.00	180.71	7,634.00	-14,091.81	-1,672.49	393,828.64	560,568.63	32.0826993	-104.2712392	14,102.04	0.00	0.00	0.00
22,100.00	90.00	180.71	7,634.00	-14,191.80	-1,673.74	393,728.64	560,567.38	32.0824245	-104.2712434	14,202.03	0.00	0.00	0.00
22,200.00	90.00	180.71	7,634.00	-14,291.79	-1,674.98	393,628.65	560,566.14	32.0821496	-104.2712476	14,302.03	0.00	0.00	0.00
22,300.00	90.00	180.71	7,634.00	-14,391.78	-1,676.23	393,528.66	560,564.89	32.0818747	-104.2712519	14,402.03	0.00	0.00	0.00

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Planned Survey													
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,400.00	90.00	180.71	7,634.00	-14,491.77	-1,677.47	393,428.67	560,563.65	32.0815999	-104.2712561	14,502.03	0.00	0.00	0.00
22,500.00	90.00	180.71	7,634.00	-14,591.77	-1,678.72	393,328.67	560,562.40	32.0813250	-104.2712603	14,602.03	0.00	0.00	0.00
22,600.00	90.00	180.71	7,634.00	-14,691.76	-1,679.96	393,228.68	560,561.16	32.0810501	-104.2712645	14,702.02	0.00	0.00	0.00
22,700.00	90.00	180.71	7,634.00	-14,791.75	-1,681.20	393,128.69	560,559.92	32.0807752	-104.2712687	14,802.02	0.00	0.00	0.00
22,800.00	90.00	180.71	7,634.00	-14,891.74	-1,682.45	393,028.70	560,558.67	32.0805004	-104.2712729	14,902.02	0.00	0.00	0.00
22,900.00	90.00	180.71	7,634.00	-14,991.74	-1,683.69	392,928.70	560,557.43	32.0802255	-104.2712771	15,002.02	0.00	0.00	0.00
23,000.00	90.00	180.71	7,634.00	-15,091.73	-1,684.94	392,828.71	560,556.18	32.0799506	-104.2712813	15,102.02	0.00	0.00	0.00
23,100.00	90.00	180.71	7,634.00	-15,191.72	-1,686.18	392,728.72	560,554.94	32.0796757	-104.2712855	15,202.01	0.00	0.00	0.00
23,200.00	90.00	180.71	7,634.00	-15,291.71	-1,687.43	392,628.73	560,553.69	32.0794009	-104.2712897	15,302.01	0.00	0.00	0.00
23,235.54	90.00	180.71	7,634.00	-15,327.25	-1,687.87	392,593.19	560,553.25	32.0793032	-104.2712912	15,337.55	0.00	0.00	0.00
TD at 23235.54 - LTP (Pintail 23-26-35 FC 12H) 100FSL & 330FWL													

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (Pintail 23-26-35 - hit/miss target - Shape - plan misses target center by 220.12usft at 7296.11usft MD (7117.03 TVD, 307.45 N, -1377.16 E) - Point	0.00	0.00	7,060.25	306.29	-1,589.82	408,226.73	560,651.30	32.1222790	-104.2709454	
IP1 (Pintail 23-26-35 F - plan hits target center - Point	0.00	0.00	7,634.00	-4,872.84	-1,572.84	403,047.60	560,668.28	32.1080418	-104.2709002	
IP2 (Pintail 23-26-35 F - plan hits target center - Point	0.00	0.00	7,634.00	-7,516.77	-1,597.14	400,403.67	560,643.98	32.1007738	-104.2709837	
LTP (Pintail 23-26-35 - plan hits target center - Point	0.00	0.00	7,634.00	-15,327.25	-1,687.87	392,593.19	560,553.25	32.0793032	-104.2712912	
IP3 (Pintail 23-26-35 F - plan hits target center - Point	0.00	0.00	7,634.00	-10,150.28	-1,623.44	397,770.16	560,617.68	32.0935344	-104.2710735	

Total Directional Planned Survey Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Well: Pintail 23-26-35 Federal Com 12H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Plan 1	Database: .Total Directional Production DB

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
431.18	431.18	Rustler			
1,076.05	1,076.05	Top of Salt			
1,668.24	1,667.85	Base of Salt			
1,881.80	1,879.53	Anhydrite			
1,896.06	1,893.58	Lamar			
2,021.85	2,016.98	Bell Canyon			
2,719.92	2,692.49	Cherry Canyon			
3,868.84	3,803.34	Brushy Canyon			
5,609.57	5,486.38	Bone Spring Lime			
5,764.50	5,636.18	Leonard Shale			
6,525.36	6,371.82	1st Bone Spring Sand			
6,701.86	6,542.47	2nd Bone Spring Shale			
7,079.60	6,907.69	2nd Bone Spring Sand			
7,452.93	7,265.13	3rd Bone Spring Carb			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1400	1400	0	0	Start Build 2.00
2140	2131	21	-93	Start hold at 2139.61 MD
7237	7060	307	-1362	KOP - Start 10.00°/100' DLS
8002	7614	-99	-1542	75° Inc - 8002.31' MD/7613.79' TVD
8157	7634	-251	-1560	LP - 8157.49' MD
8357	7634	-450	-1577	Start Turn 2.00
8607	7634	-700	-1587	Start hold at 8607.49 MD
12,780	7634	-4873	-1573	Start DLS 2.00 TFO 90.00
12,817	7634	-4909	-1573	Start hold at 12816.56 MD
15,425	7634	-7517	-1597	Start DLS 2.00 TFO 90.00
15,427	7634	-7519	-1597	Start hold at 15426.56 MD
18,058	7634	-10,150	-1623	Start DLS 2.00 TFO 90.00
18,065	7634	-10,157	-1624	Start hold at 18065.22 MD
23,236	7634	-15,327	-1688	TD at 23235.54

Checked By: _____	Approved By: _____	Date: _____
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Coterra Energy

Eddy County, NM (NAD 83)

Pintail 23-26-35 Federal Com

Pintail 23-26-35 Federal Com 12H

424' FNL, 1919' FWL

OH

Plan 1



Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

09 January, 2026

Total Report Version 1.70

COMPASS 5000.16 Build 97

[Click here for our anticollision policy](#)

ATTENTION

All offset data provided was gathered using available software and resources. Total Directional Services cannot guarantee the accuracy of all offset data, which should be verified for accuracy by the Operator.

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Reference	Plan 1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 3,336.43usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Well	Pintail 23-26-35 Federal Com 12H				
Well Position	+N/-S	0.00 usft	Northing:	407,920.44 usft	Latitude: 32.1214344
	+E/-W	0.00 usft	Easting:	562,241.12 usft	Longitude: -104.2658105
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,300.50 usft
Grid Convergence:		0.04 °			

Survey Tool Program	Date	1/9/2026			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	23,235.54	Plan 1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Experimental: Summary Highlights: Pintail 23-26-35 Federal Com 12H

- At 1,400.00 MD, Pintail 23-26-35 Federal Com 16H - OH - Plan 1 is 19.99 usft away with a 2.03 SF.
- At 3,200.00 MD, Pintail 23-26-35 Federal Com 13H - OH - Plan 1 is 45.76 usft away with a 2.01 SF.
- At 23,235.54 MD, Pintail 23-26-35 Federal Com 11H - OH - Plan 1 is 293.90 usft away with a 1.17 SF.

Offset Listing		Map Coordinates		Geographical Coordinates		Surface Uncertainty		
Offset Customer - Project - Site Name	Ground Level	KB Height	Northing	Easting	Latitude	Longitude	Site	Well
- - Pintail 23-26-35 Federal Com								
Pintail 23 Fed Com 005Y -	3,325.00	3,342.00	407,021.84	561,065.26	32.1189661	-104.2696105	0.00	0.00
Pintail 23 Fed Com 2H -	3,270.00	3,289.00	404,300.52	560,994.27	32.1114855	-104.2698450	0.00	0.00
Pintail 23-26-35 Federal Com 11H -	3,300.40	3,323.40	407,920.21	562,221.12	32.1214338	-104.2658752	0.00	0.00
Pintail 23-26-35 Federal Com 13H -	3,300.50	3,323.50	407,955.20	562,220.73	32.1215300	-104.2658763	0.00	0.00
Pintail 23-26-35 Federal Com 14H -	3,300.40	3,323.40	408,075.17	562,219.40	32.1218597	-104.2658804	0.00	0.00
Pintail 23-26-35 Federal Com 15H -	3,300.30	3,323.30	408,075.39	562,239.39	32.1218603	-104.2658158	0.00	0.00
Pintail 23-26-35 Federal Com 16H -	3,300.40	3,323.40	407,920.66	562,261.11	32.1214349	-104.2657460	0.00	0.00
Pintail 23-26-35 Federal Com 17H -	3,300.20	3,323.20	407,955.65	562,260.72	32.1215311	-104.2657472	0.00	0.00
Pintail 23-26-35 Federal Com 19H -	3,300.40	3,323.40	407,955.43	562,240.73	32.1215306	-104.2658117	0.00	0.00
- - Wigeon 23-26 Federal Com								
Bonnie 35 Fed Com 001H -	3,340.60	3,358.60	392,687.98	564,572.03	32.0795567	-104.2583155	0.00	0.00
GOLDENEYE 26 FEDERAL COM #2 -	3,255.00	3,255.00	402,725.83	561,785.21	32.1071554	-104.2672935	0.00	0.00
Pintail 23 Fed Com 001H -	3,330.00	3,348.00	406,994.30	561,315.24	32.1188900	-104.2688031	0.00	0.00
Wigeon 23 Fed Com #2 -	3,296.00	3,296.00	407,020.56	564,318.87	32.1189569	-104.2591010	0.00	0.00

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Listing								
Offset Customer - Project - Site Name Offset Well	Ground Level KB Height		Map Coordinates		Geographical Coordinates		Surface Uncertainty	
			Northing	Easting	Latitude	Longitude	Site	Well
- - Wigeon 23-26-35 Federal Com								
Bonnie 35 Fed Com 004H -	3,356.00	3,379.00	392,820.04	563,353.35	32.0799220	-104.2622500	0.00	0.00
OLD - Wigeon 23-35 Federal Com 10H -	3,288.00	3,315.00	408,010.31	563,914.16	32.1216784	-104.2604061	0.00	0.00
OLD - Wigeon 23-35 Federal Com 8H -	3,289.00	3,316.00	407,939.11	563,984.91	32.1214826	-104.2601777	0.00	0.00
Pintail 23-26 Fed Com 10H -	3,298.70	3,323.70	408,015.18	562,301.64	32.1216947	-104.2656149	0.00	0.00
Wigeon 23 Fed Com #1 -	3,377.00	3,377.00	404,722.20	563,997.75	32.1126394	-104.2601433	0.00	0.00
Wigeon 23 Fed Com 004H -	3,281.00	3,305.00	408,071.97	564,848.14	32.1218461	-104.2573890	0.00	0.00
Wigeon 23-26 Federal Com 3H -	3,288.00	3,311.00	407,980.61	563,941.56	32.1215967	-104.2603177	0.00	0.00
Wigeon 23-26 Federal Com 5H -	3,288.00	3,311.00	407,966.88	563,956.10	32.1215590	-104.2602707	0.00	0.00
Wigeon 23-35 Federal Com 6H -	3,288.00	3,311.00	407,953.15	563,970.64	32.1215212	-104.2602238	0.00	0.00
Wigeon 23-35 Federal Com 7H -	3,288.00	3,311.00	407,994.34	563,927.02	32.1216345	-104.2603646	0.00	0.00

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
Pintail 23-26-35 Federal Com						
Pintail 23 Fed Com 005Y - OH - Svy	3,046.55	2,882.87	1,254.67	1,236.47	68.95	CC, ES
Pintail 23 Fed Com 005Y - OH - Svy	3,300.00	2,915.09	1,276.96	1,258.13	67.80	SF
Pintail 23 Fed Com 2H - OH - Svy						Out of range
Pintail 23-26-35 Federal Com 11H - OH - Plan 1	1,200.00	1,199.90	20.00	11.56	2.37	CC, ES
Pintail 23-26-35 Federal Com 11H - OH - Plan 1	23,235.54	22,815.35	293.90	42.88	1.17	Level 2, SF
Pintail 23-26-35 Federal Com 13H - OH - Plan 1	1,400.00	1,400.00	40.30	30.43	4.08	CC
Pintail 23-26-35 Federal Com 13H - OH - Plan 1	3,000.00	2,994.73	43.54	22.19	2.04	ES
Pintail 23-26-35 Federal Com 13H - OH - Plan 1	3,200.00	3,194.57	45.76	22.97	2.01	SF
Pintail 23-26-35 Federal Com 14H - OH - Plan 1	3,087.52	3,072.53	124.33	102.30	5.64	CC
Pintail 23-26-35 Federal Com 14H - OH - Plan 1	3,200.00	3,184.52	124.78	101.93	5.46	ES
Pintail 23-26-35 Federal Com 14H - OH - Plan 1	3,700.00	3,682.31	136.97	110.45	5.17	SF
Pintail 23-26-35 Federal Com 15H - OH - Plan 1	1,200.00	1,199.80	154.96	146.52	18.37	CC
Pintail 23-26-35 Federal Com 15H - OH - Plan 1	1,300.00	1,297.87	155.58	146.44	17.02	ES
Pintail 23-26-35 Federal Com 15H - OH - Plan 1	23,235.54	23,950.55	1,320.60	1,067.28	5.21	SF
Pintail 23-26-35 Federal Com 16H - OH - Plan 1	1,400.00	1,399.90	19.99	10.12	2.03	CC, ES, SF
Pintail 23-26-35 Federal Com 17H - OH - Plan 1	1,400.00	1,399.70	40.30	30.43	4.08	CC
Pintail 23-26-35 Federal Com 17H - OH - Plan 1	1,500.00	1,499.68	40.82	30.24	3.86	ES
Pintail 23-26-35 Federal Com 17H - OH - Plan 1	1,600.00	1,599.54	42.79	31.51	3.79	SF
Pintail 23-26-35 Federal Com 19H - OH - Plan 1	1,615.17	1,614.87	34.05	22.65	2.99	CC, ES
Pintail 23-26-35 Federal Com 19H - OH - Plan 1	1,700.00	1,699.35	34.89	22.90	2.91	SF
Wigeon 23-26 Federal Com						
Bonnie 35 Fed Com 001H - OH - Svy						Out of range
GOLDENEYE 26 FEDERAL COM #2 - OH - Svy	13,100.00	7,569.16	1,177.29	1,114.86	18.86	SF
GOLDENEYE 26 FEDERAL COM #2 - OH - Svy	13,109.28	7,569.21	1,177.25	1,114.83	18.86	CC, ES
Pintail 23 Fed Com 001H - OH - OH Svy	8,874.36	7,681.15	642.17	585.39	11.31	CC, ES, SF
Pintail 23 Fed Com 001H - ST01 - ST01 Svy	8,874.36	7,681.15	642.17	585.39	11.31	CC, ES, SF
Wigeon 23 Fed Com #2 - OH - Cone	1,400.00	1,372.50	2,264.25	2,217.63	48.57	CC
Wigeon 23 Fed Com #2 - OH - Cone	1,500.00	1,472.48	2,265.96	2,215.96	45.31	ES
Wigeon 23 Fed Com #2 - OH - Cone	6,000.00	5,836.37	3,332.03	3,132.72	16.72	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
Wigeon 23-26-35 Federal Com						
Bonnie 35 Fed Com 004H - OH - Svy	22,982.14	6,992.00	2,956.35	2,815.88	21.05	CC
Bonnie 35 Fed Com 004H - OH - Svy	23,000.00	6,992.00	2,956.41	2,815.85	21.03	ES
Bonnie 35 Fed Com 004H - OH - Svy	23,200.00	6,992.00	2,964.37	2,823.11	20.99	SF
OLD - Wigeon 23-35 Federal Com 10H - OH - Prelim A	1,200.00	1,191.50	1,675.45	1,667.06	199.61	CC
OLD - Wigeon 23-35 Federal Com 10H - OH - Prelim A	1,300.00	1,283.56	1,675.67	1,666.59	184.52	ES
OLD - Wigeon 23-35 Federal Com 10H - OH - Prelim A	7,700.00	7,472.96	3,188.39	3,133.48	58.06	SF
OLD - Wigeon 23-35 Federal Com 8H - OH - Prelim A	1,400.00	1,392.50	1,743.89	1,734.06	177.39	CC, ES
OLD - Wigeon 23-35 Federal Com 8H - OH - Prelim A	5,500.00	4,691.00	3,333.95	3,298.21	93.28	SF
Pintail 23-26 Fed Com 10H - OH - Svy	403.16	403.37	112.00	109.58	46.35	CC
Pintail 23-26 Fed Com 10H - OH - Svy	1,100.00	1,099.13	113.29	105.92	15.37	ES
Pintail 23-26 Fed Com 10H - OH - Svy	17,800.00	18,381.00	2,369.01	2,153.92	11.01	SF
Wigeon 23 Fed Com #1 - Wellbore #1 - Cone	11,116.94	7,687.50	3,335.00	3,063.38	12.28	CC, ES
Wigeon 23 Fed Com #1 - Wellbore #1 - Cone	11,200.00	7,687.50	3,336.03	3,064.16	12.27	SF
Wigeon 23 Fed Com 004H - OH - Svy	559.66	541.05	2,606.40	2,602.91	746.90	CC
Wigeon 23 Fed Com 004H - OH - Svy	600.00	573.00	2,606.52	2,602.78	696.32	ES
Wigeon 23 Fed Com 004H - OH - Svy	4,500.00	4,397.53	3,324.55	3,293.23	106.14	SF
Wigeon 23-26 Federal Com 3H - OH - Svy	1,956.90	2,260.30	1,664.91	1,650.57	116.06	CC, ES
Wigeon 23-26 Federal Com 3H - OH - Svy	18,000.00	17,315.00	2,702.40	2,540.01	16.64	SF
Wigeon 23-26 Federal Com 5H - OH - Svy	1,052.83	1,040.40	1,708.73	1,701.74	244.59	CC
Wigeon 23-26 Federal Com 5H - OH - Svy	1,100.00	1,069.10	1,708.98	1,701.73	235.63	ES
Wigeon 23-26 Federal Com 5H - OH - Svy	6,200.00	6,021.00	3,335.80	3,292.08	76.29	SF
Wigeon 23-35 Federal Com 6H - OH - Svy	522.93	510.46	1,725.28	1,722.07	536.60	CC
Wigeon 23-35 Federal Com 6H - OH - Svy	600.00	575.14	1,725.58	1,721.86	464.64	ES
Wigeon 23-35 Federal Com 6H - OH - Svy	5,700.00	5,119.93	3,331.12	3,292.73	86.78	SF
Wigeon 23-35 Federal Com 7H - OH - Svy	1,933.31	2,218.67	1,640.33	1,626.21	116.12	CC, ES
Wigeon 23-35 Federal Com 7H - OH - Svy	23,235.54	23,196.00	2,705.27	2,461.70	11.11	SF

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23 Fed Com 005Y - OH - Svy														Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG Rev5														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	17.55	-0.95	0.00	0.11	-127.39	-898.60	-1,175.87	1,479.92						
100.00	100.00	112.93	94.43	0.28	0.71	-127.38	-898.63	-1,176.13	1,480.15	1,479.17	0.98	1,511.254			
200.00	200.00	211.81	193.31	0.63	1.44	-127.36	-898.53	-1,176.73	1,480.57	1,478.51	2.06	718.668			
300.00	300.00	312.36	293.86	0.99	1.93	-127.34	-898.27	-1,177.47	1,481.01	1,478.12	2.89	512.632			
400.00	400.00	413.35	394.84	1.35	2.34	-127.30	-897.77	-1,178.35	1,481.40	1,477.77	3.63	408.503			
500.00	500.00	517.83	499.32	1.71	2.72	-127.26	-897.02	-1,179.23	1,481.63	1,477.32	4.32	343.322			
600.00	600.00	626.76	608.23	2.07	3.08	-127.20	-895.50	-1,179.96	1,481.31	1,476.34	4.97	298.220			
700.00	700.00	725.64	707.09	2.43	3.40	-127.12	-893.56	-1,180.70	1,480.73	1,475.16	5.57	266.022			
800.00	800.00	819.26	800.69	2.79	3.70	-127.04	-891.73	-1,181.84	1,480.51	1,474.37	6.14	240.984			
900.00	900.00	920.39	901.80	3.14	4.01	-126.97	-890.30	-1,182.83	1,480.44	1,473.71	6.73	220.058			
1,000.00	1,000.00	1,036.00	1,017.40	3.50	4.36	-126.92	-889.07	-1,183.22	1,480.12	1,472.80	7.32	202.169			
1,100.00	1,100.00	1,202.58	1,183.86	3.86	4.74	-126.97	-886.70	-1,178.00	1,476.81	1,468.74	8.07	183.060			
1,200.00	1,200.00	1,305.81	1,286.89	4.22	4.85	-127.07	-885.20	-1,171.68	1,471.04	1,462.42	8.62	170.655			
1,300.00	1,300.00	1,406.41	1,387.27	4.58	4.97	-127.18	-883.91	-1,165.18	1,465.12	1,455.93	9.19	159.491			
1,400.00	1,400.00	1,510.65	1,491.26	4.94	5.12	-127.32	-882.87	-1,157.99	1,459.02	1,449.24	9.78	149.175			
1,500.00	1,499.98	1,615.34	1,595.65	5.29	5.29	-50.36	-881.98	-1,150.18	1,451.45	1,441.09	10.36	140.055			
1,600.00	1,599.84	1,711.17	1,691.19	5.64	5.46	-50.83	-881.39	-1,142.71	1,441.58	1,430.64	10.95	131.700			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23 Fed Com 005Y - OH - Svy													Offset Site Error:	0.00 usft		
Survey Program: 100-MWD OWSG Rev5													Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation				
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)	(usft)					
1,700.00	1,699.45	1,789.63	1,769.45	5.98	5.61	-51.35	-881.27	-1,137.21	1,430.48	1,419.00	11.49	124.506				
1,800.00	1,798.70	1,870.25	1,849.94	6.34	5.76	-51.98	-881.62	-1,132.57	1,418.65	1,406.62	12.03	117.950				
1,900.00	1,897.47	1,957.21	1,936.79	6.69	5.92	-52.75	-882.41	-1,128.44	1,405.89	1,393.32	12.57	111.844				
2,000.00	1,995.62	2,048.80	2,028.30	7.05	6.09	-53.69	-883.33	-1,124.64	1,391.78	1,378.66	13.11	106.126				
2,100.00	2,093.06	2,141.80	2,121.23	7.41	6.26	-54.78	-884.35	-1,121.10	1,376.21	1,362.55	13.66	100.780				
2,200.00	2,189.81	2,235.49	2,214.85	7.77	6.45	-55.84	-885.33	-1,117.81	1,359.56	1,345.37	14.19	95.788				
2,300.00	2,286.50	2,329.48	2,308.79	8.14	6.65	-56.81	-886.21	-1,114.77	1,343.30	1,328.57	14.73	91.204				
2,400.00	2,383.18	2,421.50	2,400.76	8.51	6.84	-57.77	-887.05	-1,112.02	1,327.62	1,312.37	15.25	87.033				
2,500.00	2,479.87	2,509.29	2,488.52	8.88	7.01	-58.70	-887.89	-1,109.98	1,312.85	1,297.09	15.76	83.314				
2,600.00	2,576.55	2,600.00	2,579.21	9.25	7.17	-59.67	-889.20	-1,108.25	1,299.12	1,282.89	16.24	80.016				
2,700.00	2,673.24	2,696.14	2,675.33	9.63	7.34	-60.72	-890.65	-1,106.65	1,286.05	1,269.35	16.70	76.989				
2,800.00	2,769.92	2,789.90	2,769.07	10.01	7.55	-61.73	-891.66	-1,105.46	1,273.39	1,256.16	17.22	73.930				
2,900.00	2,866.61	2,853.83	2,832.99	10.39	7.68	-62.43	-892.51	-1,104.93	1,261.92	1,244.25	17.67	71.414				
3,000.00	2,963.30	2,869.00	2,848.14	10.77	7.69	-62.61	-893.30	-1,104.90	1,255.57	1,237.58	17.99	69.783				
3,046.55	3,008.31	2,882.87	2,861.92	10.95	7.70	-62.80	-894.83	-1,104.86	1,254.67	1,236.47	18.20	68.955	CC, ES			
3,100.00	3,059.98	2,901.00	2,879.63	11.15	7.70	-63.10	-898.65	-1,104.70	1,255.99	1,237.56	18.43	68.138				
3,200.00	3,156.67	2,901.00	2,879.63	11.54	7.70	-63.10	-898.65	-1,104.70	1,262.86	1,244.24	18.62	67.830				
3,300.00	3,253.35	2,915.09	2,893.02	11.92	7.70	-63.37	-903.03	-1,104.48	1,276.96	1,258.13	18.83	67.799	SF			
3,400.00	3,350.04	2,933.00	2,909.36	12.31	7.71	-63.76	-910.32	-1,104.11	1,297.99	1,278.94	19.05	68.134				
3,500.00	3,446.73	2,933.00	2,909.36	12.70	7.71	-63.76	-910.32	-1,104.11	1,325.33	1,306.29	19.03	69.634				
3,600.00	3,543.41	2,933.00	2,909.36	13.09	7.71	-63.76	-910.32	-1,104.11	1,359.49	1,340.54	18.95	71.732				
3,700.00	3,640.10	2,965.00	2,936.05	13.48	7.75	-64.56	-927.86	-1,103.33	1,398.83	1,379.60	19.24	72.722				
3,800.00	3,736.78	2,965.00	2,936.05	13.86	7.75	-64.56	-927.86	-1,103.33	1,443.44	1,424.35	19.09	75.597				
3,900.00	3,833.47	2,965.00	2,936.05	14.26	7.75	-64.56	-927.86	-1,103.33	1,493.43	1,474.50	18.92	78.919				
4,000.00	3,930.15	2,965.00	2,936.05	14.65	7.75	-64.56	-927.86	-1,103.33	1,548.26	1,529.53	18.74	82.640				
4,100.00	4,026.84	2,996.00	2,958.11	15.04	7.86	-65.41	-949.56	-1,102.33	1,606.75	1,587.80	18.95	84.797				
4,200.00	4,123.53	2,996.00	2,958.11	15.43	7.86	-65.41	-949.56	-1,102.33	1,668.67	1,649.91	18.76	88.948				
4,300.00	4,220.21	2,996.00	2,958.11	15.82	7.86	-65.41	-949.56	-1,102.33	1,734.15	1,715.58	18.57	93.365				
4,400.00	4,316.90	2,996.00	2,958.11	16.21	7.86	-65.41	-949.56	-1,102.33	1,802.81	1,784.41	18.39	98.010				
4,500.00	4,413.58	2,996.00	2,958.11	16.61	7.86	-65.41	-949.56	-1,102.33	1,874.28	1,856.06	18.22	102.843				
4,600.00	4,510.27	2,996.00	2,958.11	17.00	7.86	-65.41	-949.56	-1,102.33	1,948.27	1,930.20	18.07	107.831				
4,700.00	4,606.96	3,027.00	2,975.87	17.39	7.98	-66.28	-974.90	-1,101.62	2,024.09	2,005.70	18.39	110.083				
4,800.00	4,703.64	3,027.00	2,975.87	17.79	7.98	-66.28	-974.90	-1,101.62	2,101.58	2,083.32	18.26	115.081				
4,900.00	4,800.33	3,027.00	2,975.87	18.18	7.98	-66.28	-974.90	-1,101.62	2,180.91	2,162.75	18.15	120.152				
5,000.00	4,897.01	3,027.00	2,975.87	18.58	7.98	-66.28	-974.90	-1,101.62	2,261.87	2,243.81	18.06	125.272				
5,100.00	4,993.70	3,027.00	2,975.87	18.97	7.98	-66.28	-974.90	-1,101.62	2,344.31	2,326.33	17.98	130.419				
5,200.00	5,090.38	3,027.00	2,975.87	19.37	7.98	-66.28	-974.90	-1,101.62	2,428.06	2,410.15	17.91	135.573				
5,300.00	5,187.07	3,027.00	2,975.87	19.76	7.98	-66.28	-974.90	-1,101.62	2,513.00	2,495.14	17.86	140.717				
5,400.00	5,283.76	3,027.00	2,975.87	20.16	7.98	-66.28	-974.90	-1,101.62	2,599.02	2,581.20	17.82	145.835				
5,500.00	5,380.44	3,027.00	2,975.87	20.55	7.98	-66.28	-974.90	-1,101.62	2,686.00	2,668.20	17.80	150.913				
5,600.00	5,477.13	3,027.00	2,975.87	20.95	7.98	-66.28	-974.90	-1,101.62	2,773.86	2,756.07	17.79	155.938				
5,700.00	5,573.81	3,043.89	2,983.64	21.35	8.02	-66.75	-989.89	-1,101.52	2,861.77	2,843.75	18.02	158.786				
5,800.00	5,670.50	3,060.00	2,989.88	21.74	8.07	-67.19	-1,004.74	-1,101.43	2,951.44	2,933.18	18.26	161.655				
5,900.00	5,767.19	3,060.00	2,989.88	22.14	8.07	-67.19	-1,004.74	-1,101.43	3,041.11	3,022.82	18.28	166.349				
6,000.00	5,863.87	3,060.00	2,989.88	22.54	8.07	-67.19	-1,004.74	-1,101.43	3,131.40	3,113.08	18.32	170.963				
6,100.00	5,960.56	3,060.00	2,989.88	22.93	8.07	-67.19	-1,004.74	-1,101.43	3,222.27	3,203.91	18.36	175.491				
6,200.00	6,057.24	3,060.00	2,989.88	23.33	8.07	-67.19	-1,004.74	-1,101.43	3,313.66	3,295.25	18.42	179.927				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 11H - OH - Plan 1

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.10	0.00	0.00	-90.66	-0.23	-20.00	20.00	19.45	0.55	36.249	
100.00	100.00	99.90	100.00	0.28	0.28	-90.66	-0.23	-20.00	20.00	18.73	1.27	15.766	
200.00	200.00	199.90	200.00	0.63	0.63	-90.66	-0.23	-20.00	20.00	18.02	1.99	10.073	
300.00	300.00	299.90	300.00	0.99	0.99	-90.66	-0.23	-20.00	20.00	17.30	2.70	7.401	
400.00	400.00	399.90	400.00	1.35	1.35	-90.66	-0.23	-20.00	20.00	16.58	3.42	5.849	
500.00	500.00	499.90	500.00	1.71	1.71	-90.66	-0.23	-20.00	20.00	15.86	4.14	4.835	
600.00	600.00	599.90	600.00	2.07	2.07	-90.66	-0.23	-20.00	20.00	15.15	4.85	4.121	
700.00	700.00	699.90	700.00	2.43	2.43	-90.66	-0.23	-20.00	20.00	14.43	5.57	3.591	
800.00	800.00	799.90	800.00	2.79	2.78	-90.66	-0.23	-20.00	20.00	13.71	6.29	3.181	
900.00	900.00	899.90	900.00	3.14	3.14	-90.66	-0.23	-20.00	20.00	13.00	7.00	2.856	
1,000.00	1,000.00	999.90	1,000.00	3.50	3.50	-90.66	-0.23	-20.00	20.00	12.28	7.72	2.590	
1,100.00	1,100.00	1,099.90	1,100.00	3.86	3.86	-90.66	-0.23	-20.00	20.00	11.56	8.44	2.370	CC, ES
1,200.00	1,200.00	1,199.90	1,200.00	4.22	4.22	-90.66	-0.23	-20.00	20.00	10.84	9.14	2.372	
1,300.00	1,300.00	1,299.19	1,299.27	4.58	4.57	-89.60	0.15	-21.67	21.69	10.12	9.83	2.724	
1,400.00	1,400.00	1,398.23	1,398.18	4.94	4.91	-87.24	1.29	-26.69	26.78	9.41	10.50	3.199	
1,500.00	1,499.98	1,496.97	1,496.54	5.29	5.26	-7.89	3.18	-35.00	33.59	8.69	11.15	3.621	
1,600.00	1,599.84	1,595.47	1,594.32	5.64	5.61	-6.53	5.81	-46.58	40.38	7.97	11.79	3.996	
1,700.00	1,699.45	1,693.75	1,691.41	5.98	5.95	-5.56	9.17	-61.39	47.13	7.26	12.42	4.332	
1,800.00	1,798.70	1,791.80	1,787.70	6.34	6.30	-4.84	13.26	-79.40	53.82	6.54	13.05	4.633	
1,900.00	1,897.47	1,889.64	1,883.10	6.69	6.66	-4.27	18.07	-100.56	60.45	5.82	13.69	4.885	
2,000.00	1,995.62	1,987.89	1,978.13	7.05	7.02	-3.82	23.59	-124.86	66.87	5.10	14.41	4.907	
2,100.00	2,093.06	2,087.81	2,074.56	7.41	7.38	-3.58	29.39	-150.40	70.69	4.38	15.13	4.736	
2,200.00	2,189.81	2,187.81	2,171.06	7.77	7.76	-3.49	35.20	-175.96	71.67	3.65	15.87	4.561	
2,300.00	2,286.50	2,287.81	2,267.56	8.14	8.13	-3.43	41.00	-201.53	72.37	2.92	16.61	4.400	
2,400.00	2,383.18	2,387.80	2,364.06	8.51	8.51	-3.36	46.81	-227.09	73.07	2.19	17.36	4.251	
2,500.00	2,479.87	2,487.80	2,460.56	8.88	8.89	-3.30	52.62	-252.65	73.78	1.46	18.11	4.113	
2,600.00	2,576.55	2,587.80	2,557.06	9.25	9.27	-3.23	58.42	-278.21	74.48	0.73	18.86	3.986	
2,700.00	2,673.24	2,687.80	2,653.56	9.63	9.66	-3.17	64.23	-303.78	75.18	0.02	19.62	3.867	
2,800.00	2,769.92	2,787.79	2,750.06	10.01	10.04	-3.11	70.04	-329.34	75.89	0.69	20.39	3.757	
2,900.00	2,866.61	2,887.79	2,846.56	10.39	10.43	-3.05	75.84	-354.90	76.59	1.37	21.15	3.654	
3,000.00	2,963.30	2,987.79	2,943.06	10.77	10.82	-2.99	81.65	-380.46	77.29	2.05	25.02	3.230	
3,100.00	3,059.98	3,087.79	3,039.56	11.15	11.20	-2.93	87.45	-406.02	78.00	2.73	25.80	3.159	
3,200.00	3,156.67	3,187.78	3,136.07	11.54	11.59	-2.88	93.26	-431.59	78.70	3.41	26.58	3.093	
3,300.00	3,253.35	3,287.78	3,232.57	11.92	11.98	-2.82	99.07	-457.15	79.40	4.09	27.36	3.030	
3,400.00	3,350.04	3,387.78	3,329.07	12.31	12.38	-2.77	104.87	-482.71	80.11	4.77	28.15	2.971	
3,500.00	3,446.73	3,487.78	3,425.57	12.70	12.77	-2.71	110.68	-508.27	80.81	5.45	28.93	2.915	
3,600.00	3,543.41	3,587.77	3,522.07	13.09	13.16	-2.66	116.49	-533.83	81.51	6.13	29.72	2.861	
3,700.00	3,640.10	3,687.77	3,618.57	13.48	13.55	-2.61	122.29	-559.40	82.22	6.81	30.51	2.811	
3,800.00	3,736.78	3,787.77	3,715.07	13.86	13.95	-2.56	128.10	-584.96	82.92	7.49	31.29	2.762	
3,900.00	3,833.47	3,887.77	3,811.57	14.26	14.34	-2.51	133.91	-610.52	83.63	8.17	32.08	2.716	
4,000.00	3,930.15	3,987.76	3,908.07	14.65	14.74	-2.46	139.71	-636.08	84.33	8.85	32.87	2.672	
4,100.00	4,026.84	4,087.76	4,004.57	15.04	15.13	-2.41	145.52	-661.64	85.03	9.53	33.66	2.631	
4,200.00	4,123.53	4,187.76	4,101.07	15.43	15.53	-2.36	151.32	-687.21	85.74	10.21	34.45	2.591	
4,300.00	4,220.21	4,287.76	4,197.57	15.82	15.93	-2.31	157.13	-712.77	86.44	10.89	35.25	2.552	
4,400.00	4,316.90	4,387.75	4,294.07	16.21	16.32	-2.27	162.94	-738.33	87.15	11.57	36.04	2.516	
4,500.00	4,413.58	4,487.75	4,390.57	16.61	16.72	-2.22	168.74	-763.89	87.85	12.25	36.83	2.481	
4,600.00	4,510.27	4,587.75	4,487.07	17.00	17.12	-2.18	174.55	-789.45	88.56	12.93	37.63	2.447	
4,700.00	4,606.96	4,687.75	4,583.57	17.39	17.51	-2.13	180.36	-815.02	89.26	13.61			
4,800.00	4,703.64	4,787.74	4,680.08	17.79	17.91	-2.09	186.16	-840.58	89.97	14.29			
4,900.00	4,800.33	4,887.74	4,776.58	18.18	18.31	-2.05	191.97	-866.14	90.67	14.97			
5,000.00	4,897.01	4,987.74	4,873.08	18.58	18.71	-2.01	197.78	-891.70	91.37	15.65			
5,100.00	4,993.70	5,087.74	4,969.58	18.97	19.11	-1.96	203.58	-917.26	92.08	16.33			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**Total Directional
Anticollision Report**



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 11H - OH - Plan 1

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS				Rule Assigned:									
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,090.38	5,187.73	5,066.08	19.37	19.51	-1.92	209.39	-942.83	92.78	54.36	38.42	2.415	
5,300.00	5,187.07	5,287.73	5,162.58	19.76	19.90	-1.88	215.19	-968.39	93.49	54.27	39.21	2.384	
5,400.00	5,283.76	5,387.73	5,259.08	20.16	20.30	-1.84	221.00	-993.95	94.19	54.18	40.01	2.354	
5,500.00	5,380.44	5,487.73	5,355.58	20.55	20.70	-1.81	226.81	-1,019.51	94.90	54.09	40.80	2.326	
5,600.00	5,477.13	5,587.72	5,452.08	20.95	21.10	-1.77	232.61	-1,045.07	95.60	54.00	41.60	2.298	
5,700.00	5,573.81	5,687.72	5,548.58	21.35	21.50	-1.73	238.42	-1,070.64	96.31	53.91	42.40	2.272	
5,800.00	5,670.50	5,787.72	5,645.08	21.74	21.90	-1.69	244.23	-1,096.20	97.01	53.82	43.19	2.246	
5,900.00	5,767.19	5,887.72	5,741.58	22.14	22.30	-1.66	250.03	-1,121.76	97.72	53.73	43.99	2.221	
6,000.00	5,863.87	5,987.71	5,838.08	22.54	22.70	-1.62	255.84	-1,147.32	98.42	53.64	44.79	2.198	
6,100.00	5,960.56	6,087.71	5,934.58	22.93	23.10	-1.58	261.64	-1,172.88	99.13	53.54	45.58	2.175	
6,200.00	6,057.24	6,187.71	6,031.08	23.33	23.50	-1.55	267.45	-1,198.45	99.83	53.45	46.38	2.152	
6,300.00	6,153.93	6,287.71	6,127.58	23.73	23.90	-1.51	273.26	-1,224.01	100.54	53.36	47.18	2.131	
6,400.00	6,250.61	6,387.70	6,224.08	24.13	24.30	-1.48	279.06	-1,249.57	101.24	53.27	47.98	2.110	
6,500.00	6,347.30	6,487.70	6,320.59	24.52	24.70	-1.45	284.87	-1,275.13	101.95	53.17	48.78	2.090	
6,600.00	6,443.99	6,587.70	6,417.09	24.92	25.10	-1.41	290.68	-1,300.69	102.65	53.08	49.58	2.071	
6,700.00	6,540.67	6,687.70	6,513.59	25.32	25.50	-1.38	296.48	-1,326.26	103.36	52.98	50.37	2.052	
6,800.00	6,637.36	6,787.69	6,610.09	25.72	25.90	-1.35	302.29	-1,351.82	104.06	52.89	51.17	2.034	
6,900.00	6,734.04	6,888.78	6,707.63	26.11	26.31	-1.32	308.09	-1,377.38	104.77	52.80	51.97	2.019	
6,920.86	6,754.21	6,909.66	6,727.68	26.20	26.39	-1.32	302.18	-1,383.56	104.36	52.25	52.11	2.003	
7,000.00	6,830.73	6,986.31	6,800.33	26.51	26.67	-1.29	289.46	-1,404.20	105.61	53.14	52.47	2.013	
7,100.00	6,927.42	7,074.89	6,881.09	26.91	26.98	-1.26	282.42	-1,428.21	106.89	54.03	52.07	2.025	
7,200.00	7,024.10	7,150.00	6,945.53	27.31	27.21	-1.23	275.57	-1,452.24	108.17	54.91	51.71	2.038	
7,300.00	7,120.78	7,219.46	7,000.79	27.70	27.40	-1.20	268.87	-1,476.29	109.45	55.78	51.36	2.052	
7,400.00	7,216.15	7,283.82	7,047.55	28.08	27.56	-1.17	262.32	-1,500.36	110.73	56.64	51.01	2.066	
7,500.00	7,307.37	7,350.00	7,090.54	28.42	27.70	-1.14	255.84	-1,524.43	112.01	57.49	50.66	2.080	
7,600.00	7,391.67	7,400.00	7,119.24	28.72	27.80	-1.11	249.39	-1,548.51	113.29	58.33	50.31	2.094	
7,700.00	7,466.49	7,468.15	7,152.71	28.97	27.92	-1.08	243.00	-1,572.60	114.57	59.16	50.00	2.108	
7,800.00	7,529.56	7,527.82	7,176.31	29.18	28.01	-1.05	236.67	-1,596.70	115.85	60.00	49.69	2.122	
7,900.00	7,578.96	7,586.98	7,194.19	29.35	28.10	-1.03	230.38	-1,620.80	117.13	60.83	49.38	2.136	
8,000.00	7,613.19	7,650.00	7,206.99	29.50	28.20	-1.01	224.14	-1,644.90	118.41	61.66	49.07	2.150	
8,100.00	7,631.21	7,700.00	7,212.44	29.65	28.27	-0.99	217.95	-1,669.00	119.69	62.49	48.76	2.164	
8,200.00	7,634.00	7,782.79	7,214.16	29.80	28.40	-0.97	211.81	-1,693.10	120.97	63.32	48.45	2.178	
8,300.00	7,634.00	7,882.79	7,215.00	29.95	28.56	-0.95	205.72	-1,717.20	122.25	64.15	48.14	2.192	
8,400.00	7,634.00	7,982.79	7,215.84	30.12	28.74	-0.93	199.68	-1,741.30	123.53	64.98	47.83	2.206	
8,500.00	7,634.00	8,082.79	7,216.68	30.30	28.93	-0.91	193.69	-1,765.40	124.81	65.81	47.52	2.220	
8,600.00	7,634.00	8,182.78	7,217.52	30.49	29.12	-0.90	187.75	-1,789.50	126.09	66.64	47.21	2.234	
8,700.00	7,634.00	8,282.78	7,218.35	30.68	29.32	-0.88	181.86	-1,813.60	127.37	67.47	46.90	2.248	
8,800.00	7,634.00	8,382.78	7,219.19	30.89	29.54	-0.86	176.02	-1,837.70	128.65	68.30	46.59	2.262	
8,900.00	7,634.00	8,482.77	7,220.03	31.11	29.77	-0.84	170.23	-1,861.80	129.93	69.13	46.28	2.276	
9,000.00	7,634.00	8,582.77	7,220.87	31.34	30.01	-0.82	164.50	-1,885.90	131.21	70.00	45.97	2.290	
9,100.00	7,634.00	8,682.77	7,221.70	31.59	30.27	-0.80	158.82	-1,910.00	132.49	70.83	45.66	2.304	
9,200.00	7,634.00	8,782.76	7,222.54	31.85	30.55	-0.78	153.20	-1,934.10	133.77	71.66	45.35	2.318	
9,300.00	7,634.00	8,882.76	7,223.38	32.13	30.84	-0.76	147.63	-1,958.20	135.05	72.49	45.04	2.332	
9,400.00	7,634.00	8,982.76	7,224.22	32.41	31.14	-0.74	142.12	-1,982.30	136.33	73.32	44.73	2.346	
9,500.00	7,634.00	9,082.75	7,225.06	32.72	31.45	-0.72	136.66	-2,006.40	137.61	74.15	44.42	2.360	
9,600.00	7,634.00	9,182.75	7,225.89	33.03	31.78	-0.70	131.25	-2,030.50	138.89	74.98	44.11	2.374	
9,700.00	7,634.00	9,282.75	7,226.73	33.36	32.13	-0.68	125.89	-2,054.60	140.17	75.81	43.80	2.388	
9,800.00	7,634.00	9,382.74	7,227.57	33.70	32.48	-0.66	120.58	-2,078.70	141.45	76.64	43.49	2.402	
9,900.00	7,634.00	9,482.74	7,228.41	34.05	32.85	-0.64	115.32	-2,102.80	142.73	77.47	43.18	2.416	
10,000.00	7,634.00	9,582.73	7,229.24	34.42	33.23	-0.62	110.11	-2,126.90	144.01	78.30	42.87	2.430	
10,100.00	7,634.00	9,682.73	7,230.08	34.80	33.63	-0.60	104.95	-2,151.00	145.29	79.13	42.56	2.444	
10,200.00	7,634.00	9,782.73	7,230.92	35.19	34.03	-0.58	99.84	-2,175.10	146.57	80.00	42.25	2.458	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Table with 4 columns: Field Name, Value, Field Name, Value. Includes Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: Total Directional Production DB, Offset TVD Reference: Reference Datum.

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 11H - OH - Plan 1

Main data table with columns: Measured Depth (usft), Vertical Depth (usft), Offset Measured Depth (usft), Offset Vertical Depth (usft), Semi Major Axis Reference (usft), Semi Major Axis Offset (usft), Highside Toolface (degrees), Offset Wellbore Centre (+N/-S (usft), +E/-W (usft)), Distance (Between Centres (usft), Between Ellipses (usft)), Minimum Separation (usft), Separation Factor, Warning. Contains 100 rows of data.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 11H - OH - Plan 1, Offset Site Error: 0.00 usft, Offset Well Error: 0.00 usft

Table with columns: Measured Depth (usft), Vertical Depth (usft), Measured Depth (usft), Vertical Depth (usft), Semi Major Axis Reference (usft), Semi Major Axis Offset (usft), Highside Toolface (degrees), Offset Wellbore Centre (+N/-S usft), (+E/-W usft), Distance Between Centres (usft), Distance Between Ellipses (usft), Minimum Separation (usft), Separation Factor, Warning. Rows contain depth data and separation values.

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 11H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,700.00	7,634.00	20,282.36	7,318.88	102.81	102.56	0.00	-12,794.55	-1,656.35	315.13	103.68	211.45	1.490	Level 3	
20,800.00	7,634.00	20,382.36	7,319.72	103.54	103.30	0.00	-12,894.53	-1,657.59	314.29	101.28	213.01	1.476	Level 3	
20,900.00	7,634.00	20,482.35	7,320.56	104.27	104.03	0.00	-12,994.52	-1,658.83	313.45	98.89	214.56	1.461	Level 3	
21,000.00	7,634.00	20,582.35	7,321.40	105.00	104.76	0.00	-13,094.50	-1,660.08	312.62	96.49	216.12	1.446	Level 3	
21,100.00	7,634.00	20,682.35	7,322.23	105.74	105.50	0.00	-13,194.49	-1,661.32	311.78	94.10	217.68	1.432	Level 3	
21,200.00	7,634.00	20,782.34	7,323.07	106.47	106.24	0.00	-13,294.47	-1,662.57	310.94	91.70	219.24	1.418	Level 3	
21,300.00	7,634.00	20,882.34	7,323.91	107.20	106.97	0.00	-13,394.46	-1,663.81	310.10	89.30	220.80	1.404	Level 3	
21,400.00	7,634.00	20,982.33	7,324.75	107.93	107.71	0.00	-13,494.44	-1,665.06	309.27	86.91	222.36	1.391	Level 3	
21,500.00	7,634.00	21,082.33	7,325.58	108.67	108.44	0.00	-13,594.43	-1,666.30	308.43	84.51	223.92	1.377	Level 3	
21,600.00	7,634.00	21,182.33	7,326.42	109.40	109.18	0.00	-13,694.41	-1,667.55	307.59	82.11	225.48	1.364	Level 3	
21,700.00	7,634.00	21,282.32	7,327.26	110.14	109.92	0.00	-13,794.40	-1,668.79	306.75	79.72	227.04	1.351	Level 3	
21,800.00	7,634.00	21,382.32	7,328.10	110.87	110.66	0.00	-13,894.38	-1,670.03	305.91	77.32	228.59	1.338	Level 3	
21,900.00	7,634.00	21,482.32	7,328.93	111.61	111.39	0.00	-13,994.37	-1,671.28	305.08	74.92	230.15	1.326	Level 3	
22,000.00	7,634.00	21,582.31	7,329.77	112.34	112.13	0.00	-14,094.35	-1,672.52	304.24	72.53	231.71	1.313	Level 3	
22,100.00	7,634.00	21,682.31	7,330.61	113.08	112.87	0.00	-14,194.34	-1,673.77	303.40	70.13	233.27	1.301	Level 3	
22,200.00	7,634.00	21,782.31	7,331.45	113.81	113.61	0.00	-14,294.32	-1,675.01	302.56	67.73	234.83	1.288	Level 3	
22,300.00	7,634.00	21,882.30	7,332.28	114.55	114.35	0.00	-14,394.31	-1,676.26	301.73	65.33	236.39	1.276	Level 3	
22,400.00	7,634.00	21,982.30	7,333.12	115.29	115.09	0.00	-14,494.29	-1,677.50	300.89	62.93	237.95	1.264	Level 3	
22,500.00	7,634.00	22,082.30	7,333.96	116.02	115.83	0.00	-14,594.28	-1,678.75	300.05	60.54	239.51	1.253	Level 3	
22,600.00	7,634.00	22,182.29	7,334.80	116.76	116.57	0.00	-14,694.26	-1,679.99	299.21	58.14	241.08	1.241	Level 2	
22,700.00	7,634.00	22,282.29	7,335.63	117.50	117.31	0.00	-14,794.25	-1,681.24	298.38	55.74	242.64	1.230	Level 2	
22,800.00	7,634.00	22,382.29	7,336.47	118.24	118.05	0.00	-14,894.24	-1,682.48	297.54	53.34	244.20	1.218	Level 2	
22,900.00	7,634.00	22,482.28	7,337.31	118.98	118.79	0.00	-14,994.22	-1,683.72	296.70	50.94	245.76	1.207	Level 2	
23,000.00	7,634.00	22,582.28	7,338.15	119.72	119.53	0.00	-15,094.21	-1,684.97	295.86	48.54	247.32	1.196	Level 2	
23,100.00	7,634.00	22,682.27	7,338.99	120.46	120.27	0.00	-15,194.19	-1,686.21	295.03	46.15	248.88	1.185	Level 2	
23,200.00	7,634.00	22,782.27	7,339.82	121.19	121.02	0.00	-15,294.18	-1,687.46	294.19	43.75	250.44	1.175	Level 2	
23,235.54	7,634.00	22,815.35	7,340.10	121.46	121.26	0.00	-15,327.25	-1,687.87	293.90	42.88	251.02	1.171	Level 2, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 13H - OH - Plan 1

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-30.40	34.76	-20.39	40.30	40.30			
100.00	100.00	100.00	100.00	0.28	0.28	-30.40	34.76	-20.39	40.30	39.75	0.55	72.999	
200.00	200.00	200.00	200.00	0.63	0.63	-30.40	34.76	-20.39	40.30	39.03	1.27	31.757	
300.00	300.00	300.00	300.00	0.99	0.99	-30.40	34.76	-20.39	40.30	38.31	1.99	20.292	
400.00	400.00	400.00	400.00	1.35	1.35	-30.40	34.76	-20.39	40.30	37.60	2.70	14.910	
500.00	500.00	500.00	500.00	1.71	1.71	-30.40	34.76	-20.39	40.30	36.88	3.42	11.784	
600.00	600.00	600.00	600.00	2.07	2.07	-30.40	34.76	-20.39	40.30	36.16	4.14	9.742	
700.00	700.00	700.00	700.00	2.43	2.43	-30.40	34.76	-20.39	40.30	35.45	4.85	8.303	
800.00	800.00	800.00	800.00	2.79	2.79	-30.40	34.76	-20.39	40.30	34.73	5.57	7.234	
900.00	900.00	900.00	900.00	3.14	3.14	-30.40	34.76	-20.39	40.30	34.01	6.29	6.409	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-30.40	34.76	-20.39	40.30	33.29	7.00	5.753	
1,100.00	1,100.00	1,100.00	1,100.00	3.86	3.86	-30.40	34.76	-20.39	40.30	32.58	7.72	5.219	
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	-30.40	34.76	-20.39	40.30	31.86	8.44	4.776	
1,300.00	1,300.00	1,300.00	1,300.00	4.58	4.58	-30.40	34.76	-20.39	40.30	31.14	9.16	4.402	
1,400.00	1,400.00	1,400.00	1,400.00	4.94	4.94	-30.40	34.76	-20.39	40.30	30.43	9.87	4.082	CC
1,500.00	1,499.98	1,498.69	1,498.67	5.29	5.29	47.86	35.85	-21.69	40.73	30.16	10.57	3.854	
1,600.00	1,599.84	1,597.33	1,597.18	5.64	5.64	50.61	39.13	-25.59	42.11	30.86	11.25	3.742	
1,700.00	1,699.45	1,695.91	1,695.38	5.98	5.99	54.80	44.57	-32.09	44.60	32.67	11.93	3.738	
1,800.00	1,798.70	1,795.00	1,793.77	6.34	6.34	59.72	51.90	-41.28	48.14	35.52	12.62	3.814	
1,900.00	1,897.47	1,894.97	1,892.72	6.69	6.69	63.84	58.72	-53.76	50.65	37.31	13.34	3.797	
2,000.00	1,995.62	1,995.11	1,991.44	7.05	7.05	67.33	64.47	-69.56	51.58	37.52	14.06	3.667	
2,100.00	2,093.06	2,095.37	2,089.73	7.41	7.41	70.56	69.15	-88.67	50.85	36.06	14.79	3.437	
2,200.00	2,189.81	2,195.37	2,187.36	7.77	7.76	74.32	73.05	-110.00	48.89	33.37	15.53	3.149	
2,300.00	2,286.50	2,295.29	2,284.88	8.14	8.13	78.59	76.92	-131.40	47.07	30.81	16.26	2.895	
2,400.00	2,383.18	2,395.21	2,382.41	8.51	8.49	83.18	80.80	-152.79	45.54	28.54	16.99	2.680	
2,500.00	2,479.87	2,495.13	2,479.94	8.88	8.86	88.05	84.67	-174.18	44.31	26.58	17.73	2.500	
2,600.00	2,576.55	2,595.05	2,577.46	9.25	9.22	93.15	88.54	-195.57	43.43	24.97	18.46	2.352	
2,700.00	2,673.24	2,694.97	2,674.99	9.63	9.59	98.43	92.42	-216.96	42.90	23.71	19.19	2.236	
2,792.07	2,762.26	2,786.97	2,764.78	9.98	9.94	103.36	95.98	-236.66	42.74	22.88	19.85	2.153	
2,800.00	2,769.92	2,794.89	2,772.51	10.01	9.96	103.79	96.29	-238.36	42.74	22.83	19.91	2.146	
2,900.00	2,866.61	2,894.81	2,870.04	10.39	10.34	109.14	100.16	-259.75	42.96	22.32	20.63	2.082	
3,000.00	2,963.30	2,994.73	2,967.56	10.77	10.71	114.40	104.04	-281.14	43.54	22.19	21.35	2.040	ES
3,100.00	3,059.98	3,094.65	3,065.09	11.15	11.09	119.47	107.91	-302.53	44.49	22.42	22.07	2.016	
3,200.00	3,156.67	3,194.57	3,162.62	11.54	11.46	124.30	111.79	-323.92	45.76	22.97	22.79	2.008	SF
3,300.00	3,253.35	3,294.49	3,260.14	11.92	11.84	128.83	115.66	-345.32	47.34	23.83	23.51	2.013	
3,400.00	3,350.04	3,394.41	3,357.67	12.31	12.21	133.05	119.53	-366.71	49.20	24.96	24.24	2.029	
3,500.00	3,446.73	3,494.33	3,455.19	12.70	12.59	136.94	123.41	-388.10	51.31	26.33	24.98	2.054	
3,600.00	3,543.41	3,594.24	3,552.72	13.09	12.97	140.51	127.28	-409.49	53.63	27.91	25.72	2.085	
3,700.00	3,640.10	3,694.16	3,650.25	13.48	13.35	143.78	131.15	-430.88	56.15	29.68	26.47	2.121	
3,800.00	3,736.78	3,794.08	3,747.77	13.86	13.73	146.75	135.03	-452.28	58.83	31.61	27.22	2.161	
3,900.00	3,833.47	3,894.00	3,845.30	14.26	14.11	149.46	138.90	-473.67	61.65	33.68	27.97	2.204	
4,000.00	3,930.15	3,993.92	3,942.82	14.65	14.49	151.93	142.78	-495.06	64.61	35.87	28.73	2.248	
4,100.00	4,026.84	4,093.84	4,040.35	15.04	14.87	154.17	146.65	-516.45	67.67	38.17	29.50	2.294	
4,200.00	4,123.53	4,193.76	4,137.87	15.43	15.25	156.22	150.52	-537.85	70.82	40.56	30.26	2.340	
4,300.00	4,220.21	4,293.68	4,235.40	15.82	15.64	158.10	154.40	-559.24	74.06	43.03	31.03	2.386	
4,400.00	4,316.90	4,393.60	4,332.93	16.21	16.02	159.81	158.27	-580.63	77.37	45.56	31.80	2.433	
4,500.00	4,413.58	4,493.52	4,430.45	16.61	16.40	161.38	162.14	-602.02	80.74	48.16	32.58	2.478	
4,600.00	4,510.27	4,593.44	4,527.98	17.00	16.78	162.83	166.02	-623.41	84.17	50.82	33.35	2.524	
4,700.00	4,606.96	4,693.36	4,625.50	17.39	17.17	164.16	169.89	-644.81	87.65	53.52	34.13	2.568	
4,800.00	4,703.64	4,793.28	4,723.03	17.79	17.55	165.39	173.77	-666.20	91.17	56.27	34.91	2.612	
4,900.00	4,800.33	4,893.20	4,820.56	18.18	17.93	166.53	177.64	-687.59	94.74	59.05	35.69	2.655	
5,000.00	4,897.01	4,993.12	4,918.08	18.58	18.32	167.58	181.51	-708.98	98.33	61.86	36.47	2.696	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 13H - OH - Plan 1

Table with columns: Survey Program, Reference, Measured Vertical, Offset Vertical, Semi Major Axis Reference, Semi Major Axis Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Between Ellipses), Minimum Separation, Separation Factor, Warning, Offset Site Error, Offset Well Error. Rows contain depth and offset data.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**Total Directional
Anticollision Report**



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 13H - OH - Plan 1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS														Offset Well Error:	0.00 usft
Reference				Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,200.00	7,634.00	11,262.13	8,750.00	35.19	38.42	180.00	-2,292.37	-1,581.40	1,116.00	1,062.58	53.42	20.891			
10,300.00	7,634.00	11,362.13	8,750.00	35.59	38.79	180.00	-2,392.37	-1,581.07	1,116.00	1,061.26	54.74	20.388			
10,400.00	7,634.00	11,462.13	8,750.00	36.00	39.18	180.00	-2,492.37	-1,580.73	1,116.00	1,059.93	56.07	19.905			
10,500.00	7,634.00	11,562.13	8,750.00	36.43	39.57	180.00	-2,592.37	-1,580.40	1,116.00	1,058.59	57.41	19.439			
10,600.00	7,634.00	11,662.13	8,750.00	36.86	39.98	180.00	-2,692.37	-1,580.07	1,116.00	1,057.24	58.76	18.991			
10,700.00	7,634.00	11,762.13	8,750.00	37.30	40.39	180.00	-2,792.37	-1,579.74	1,116.00	1,055.87	60.13	18.561			
10,800.00	7,634.00	11,862.13	8,750.00	37.76	40.82	180.00	-2,892.36	-1,579.41	1,116.00	1,054.50	61.50	18.146			
10,900.00	7,634.00	11,962.13	8,750.00	38.22	41.26	180.00	-2,992.36	-1,579.08	1,116.00	1,053.12	62.88	17.747			
11,000.00	7,634.00	12,062.13	8,750.00	38.70	41.70	180.00	-3,092.36	-1,578.74	1,116.00	1,051.72	64.28	17.363			
11,100.00	7,634.00	12,162.13	8,750.00	39.18	42.15	180.00	-3,192.36	-1,578.41	1,116.00	1,050.32	65.68	16.993			
11,200.00	7,634.00	12,262.13	8,750.00	39.67	42.61	180.00	-3,292.36	-1,578.08	1,116.00	1,048.92	67.08	16.636			
11,300.00	7,634.00	12,362.13	8,750.00	40.17	43.08	180.00	-3,392.36	-1,577.75	1,116.00	1,047.50	68.50	16.293			
11,400.00	7,634.00	12,462.13	8,750.00	40.67	43.56	180.00	-3,492.36	-1,577.42	1,116.00	1,046.08	69.92	15.962			
11,500.00	7,634.00	12,562.13	8,750.00	41.19	44.05	180.00	-3,592.36	-1,577.09	1,116.00	1,044.66	71.34	15.642			
11,600.00	7,634.00	12,662.13	8,750.00	41.71	44.54	180.00	-3,692.36	-1,576.75	1,116.00	1,043.22	72.78	15.335			
11,700.00	7,634.00	12,762.13	8,750.00	42.24	45.04	180.00	-3,792.36	-1,576.42	1,116.00	1,041.78	74.22	15.037			
11,800.00	7,634.00	12,862.13	8,750.00	42.78	45.55	180.00	-3,892.36	-1,576.09	1,116.00	1,040.34	75.66	14.750			
11,900.00	7,634.00	12,962.13	8,750.00	43.32	46.07	180.00	-3,992.36	-1,575.76	1,116.00	1,038.89	77.11	14.473			
12,000.00	7,634.00	13,062.13	8,750.00	43.87	46.59	180.00	-4,092.36	-1,575.43	1,116.00	1,037.44	78.56	14.206			
12,100.00	7,634.00	13,162.13	8,750.00	44.43	47.12	180.00	-4,192.36	-1,575.10	1,116.00	1,035.98	80.02	13.947			
12,200.00	7,634.00	13,262.13	8,750.00	44.99	47.65	180.00	-4,292.36	-1,574.76	1,116.00	1,034.52	81.48	13.697			
12,300.00	7,634.00	13,362.13	8,750.00	45.56	48.20	180.00	-4,392.36	-1,574.43	1,116.00	1,033.06	82.94	13.455			
12,400.00	7,634.00	13,462.13	8,750.00	46.13	48.74	180.00	-4,492.36	-1,574.10	1,116.00	1,031.59	84.41	13.221			
12,500.00	7,634.00	13,562.13	8,750.00	46.71	49.29	180.00	-4,592.36	-1,573.77	1,116.00	1,030.11	85.89	12.994			
12,600.00	7,634.00	13,662.13	8,750.00	47.30	49.85	180.00	-4,692.36	-1,573.44	1,116.00	1,028.64	87.36	12.774			
12,700.00	7,634.00	13,762.13	8,750.00	47.89	50.42	180.00	-4,792.35	-1,573.11	1,116.00	1,027.16	88.84	12.562			
12,800.00	7,634.00	13,862.13	8,750.00	48.48	50.98	180.00	-4,892.35	-1,572.78	1,116.00	1,025.68	90.32	12.355			
12,900.00	7,634.00	13,962.13	8,750.00	49.08	51.56	180.00	-4,992.35	-1,572.45	1,116.00	1,024.19	91.81	12.155			
13,000.00	7,634.00	14,062.13	8,750.00	49.68	52.14	180.00	-5,092.35	-1,572.12	1,116.00	1,022.70	93.30	11.962			
13,100.00	7,634.00	14,162.13	8,750.00	50.29	52.72	180.00	-5,192.34	-1,571.79	1,116.00	1,021.21	94.79	11.773			
13,200.00	7,634.00	14,262.13	8,750.00	50.91	53.31	180.00	-5,292.34	-1,571.46	1,116.00	1,019.72	96.28	11.591			
13,300.00	7,634.00	14,362.13	8,750.00	51.52	53.90	180.00	-5,392.33	-1,571.13	1,116.00	1,018.22	97.78	11.414			
13,400.00	7,634.00	14,462.13	8,750.00	52.15	54.50	180.00	-5,492.33	-1,570.80	1,116.00	1,016.72	99.28	11.241			
13,500.00	7,634.00	14,562.13	8,750.00	52.77	55.10	180.00	-5,592.32	-1,570.47	1,116.00	1,015.22	100.78	11.074			
13,600.00	7,634.00	14,662.13	8,750.00	53.40	55.71	180.00	-5,692.32	-1,580.22	1,116.00	1,013.72	102.28	10.911			
13,700.00	7,634.00	14,762.13	8,750.00	54.03	56.32	180.00	-5,792.32	-1,581.14	1,116.00	1,012.22	103.78	10.753			
13,800.00	7,634.00	14,862.13	8,750.00	54.67	56.93	180.00	-5,892.31	-1,582.07	1,116.00	1,010.71	105.29	10.599			
13,900.00	7,634.00	14,962.13	8,750.00	55.30	57.55	180.00	-5,992.31	-1,583.00	1,116.00	1,009.20	106.80	10.450			
14,000.00	7,634.00	15,062.13	8,750.00	55.95	58.17	180.00	-6,092.30	-1,583.93	1,116.00	1,007.69	108.31	10.304			
14,100.00	7,634.00	15,162.13	8,750.00	56.59	58.79	180.00	-6,192.30	-1,584.85	1,116.00	1,006.18	109.82	10.162			
14,200.00	7,634.00	15,262.13	8,750.00	57.24	59.42	180.00	-6,292.29	-1,585.78	1,116.00	1,004.67	111.33	10.024			
14,300.00	7,634.00	15,362.13	8,750.00	57.89	60.05	180.00	-6,392.29	-1,586.71	1,116.00	1,003.16	112.84	9.890			
14,400.00	7,634.00	15,462.13	8,750.00	58.54	60.68	180.00	-6,492.29	-1,587.64	1,116.00	1,001.64	114.36	9.759			
14,500.00	7,634.00	15,562.13	8,750.00	59.20	61.32	180.00	-6,592.28	-1,588.56	1,116.00	1,000.12	115.88	9.631			
14,600.00	7,634.00	15,662.13	8,750.00	59.86	61.95	180.00	-6,692.28	-1,589.49	1,116.00	998.60	117.40	9.506			
14,700.00	7,634.00	15,762.13	8,750.00	60.52	62.60	180.00	-6,792.27	-1,590.42	1,116.00	997.08	118.92	9.385			
14,800.00	7,634.00	15,862.13	8,750.00	61.18	63.24	180.00	-6,892.27	-1,591.35	1,116.00	995.56	120.44	9.266			
14,900.00	7,634.00	15,962.13	8,750.00	61.85	63.89	180.00	-6,992.26	-1,592.27	1,116.00	994.04	121.96	9.151			
15,000.00	7,634.00	16,062.13	8,750.00	62.51	64.54	180.00	-7,092.26	-1,593.20	1,116.00	992.52	123.48	9.038			
15,100.00	7,634.00	16,162.13	8,750.00	63.18	65.19	180.00	-7,192.26	-1,594.13	1,116.00	990.99	125.01	8.927			
15,200.00	7,634.00	16,262.13	8,750.00	63.86	65.84	180.00	-7,292.25	-1,595.06	1,116.00	989.47	126.53	8.820			
15,300.00	7,634.00	16,362.13	8,750.00	64.53	66.50	180.00	-7,392.25	-1,595.98	1,116.00	987.94	128.06	8.715			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1. Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum.

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 13H - OH - Plan 1

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Table with columns: Measured Depth (usft), Vertical Depth (usft), Offset Measured Depth (usft), Offset Vertical Depth (usft), Semi Major Axis Reference (usft), Semi Major Axis Offset (usft), Highside Toolface (°), Offset Wellbore Centre (+N/-S usft, +E/-W usft), Distance (Between Centres usft, Between Ellipses usft), Minimum Separation (usft), Separation Factor, and Warning. The table contains 50 rows of data for various depths from 15,400.00 to 20,300.00 usft.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 13H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,400.00	7,634.00	21,462.13	8,750.00	100.62	101.98	180.00	-12,491.93	-1,652.58	1,116.00	909.21	206.79	5.397	
20,500.00	7,634.00	21,562.13	8,750.00	101.35	102.70	180.00	-12,591.92	-1,653.82	1,116.00	907.66	208.34	5.357	
20,600.00	7,634.00	21,662.13	8,750.00	102.08	103.42	180.00	-12,691.91	-1,655.07	1,116.00	906.11	209.89	5.317	
20,700.00	7,634.00	21,762.13	8,750.00	102.81	104.15	180.00	-12,791.91	-1,656.31	1,116.00	904.55	211.45	5.278	
20,800.00	7,634.00	21,862.13	8,750.00	103.54	104.87	180.00	-12,891.90	-1,657.56	1,116.00	903.00	213.00	5.239	
20,900.00	7,634.00	21,962.13	8,750.00	104.27	105.59	180.00	-12,991.89	-1,658.80	1,116.00	901.44	214.56	5.201	
21,000.00	7,634.00	22,062.13	8,750.00	105.00	106.32	180.00	-13,091.88	-1,660.05	1,116.00	899.89	216.11	5.164	
21,100.00	7,634.00	22,162.13	8,750.00	105.74	107.04	180.00	-13,191.87	-1,661.29	1,116.00	898.33	217.67	5.127	
21,200.00	7,634.00	22,262.13	8,750.00	106.47	107.77	180.00	-13,291.87	-1,662.54	1,116.00	896.78	219.22	5.091	
21,300.00	7,634.00	22,362.13	8,750.00	107.20	108.49	180.00	-13,391.86	-1,663.78	1,116.00	895.22	220.78	5.055	
21,400.00	7,634.00	22,462.13	8,750.00	107.93	109.22	180.00	-13,491.85	-1,665.02	1,116.00	893.67	222.33	5.019	
21,500.00	7,634.00	22,562.13	8,750.00	108.67	109.94	180.00	-13,591.84	-1,666.27	1,116.00	892.11	223.89	4.985	
21,600.00	7,634.00	22,662.13	8,750.00	109.40	110.67	180.00	-13,691.84	-1,667.51	1,116.00	890.56	225.44	4.950	
21,700.00	7,634.00	22,762.13	8,750.00	110.14	111.40	180.00	-13,791.83	-1,668.76	1,116.00	889.00	227.00	4.916	
21,800.00	7,634.00	22,862.13	8,750.00	110.87	112.13	180.00	-13,891.82	-1,670.00	1,116.00	887.44	228.56	4.883	
21,900.00	7,634.00	22,962.13	8,750.00	111.61	112.85	180.00	-13,991.81	-1,671.25	1,116.00	885.89	230.11	4.850	
22,000.00	7,634.00	23,062.13	8,750.00	112.34	113.58	180.00	-14,091.81	-1,672.49	1,116.00	884.33	231.67	4.817	
22,100.00	7,634.00	23,162.13	8,750.00	113.08	114.31	180.00	-14,191.80	-1,673.74	1,116.00	882.77	233.23	4.785	
22,200.00	7,634.00	23,262.13	8,750.00	113.81	115.04	180.00	-14,291.79	-1,674.98	1,116.00	881.22	234.78	4.753	
22,300.00	7,634.00	23,362.13	8,750.00	114.55	115.77	180.00	-14,391.78	-1,676.23	1,116.00	879.66	236.34	4.722	
22,400.00	7,634.00	23,462.13	8,750.00	115.29	116.50	180.00	-14,491.77	-1,677.47	1,116.00	878.10	237.90	4.691	
22,500.00	7,634.00	23,562.13	8,750.00	116.02	117.23	180.00	-14,591.77	-1,678.72	1,116.00	876.54	239.46	4.661	
22,600.00	7,634.00	23,662.13	8,750.00	116.76	117.97	180.00	-14,691.76	-1,679.96	1,116.00	874.99	241.01	4.630	
22,700.00	7,634.00	23,762.13	8,750.00	117.50	118.70	180.00	-14,791.75	-1,681.20	1,116.00	873.43	242.57	4.601	
22,800.00	7,634.00	23,862.13	8,750.00	118.24	119.43	180.00	-14,891.74	-1,682.45	1,116.00	871.87	244.13	4.571	
22,900.00	7,634.00	23,962.13	8,750.00	118.98	120.16	180.00	-14,991.74	-1,683.69	1,116.00	870.31	245.69	4.542	
23,000.00	7,634.00	24,062.13	8,750.00	119.72	120.90	180.00	-15,091.73	-1,684.94	1,116.00	868.75	247.25	4.514	
23,100.00	7,634.00	24,162.13	8,750.00	120.46	121.63	180.00	-15,191.72	-1,686.18	1,116.00	867.19	248.81	4.485	
23,200.00	7,634.00	24,262.13	8,750.00	121.19	122.36	180.00	-15,291.71	-1,687.43	1,116.00	865.64	250.36	4.458	
23,235.54	7,634.00	24,297.67	8,750.00	121.46	122.62	180.00	-15,327.25	-1,687.87	1,116.00	865.08	250.92	4.448	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 14H - OH - Plan 1

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.10	0.00	0.00	-7.99	154.73	-21.72	156.25	155.70	0.55	283.174	
100.00	100.00	99.90	100.00	0.28	0.28	-7.99	154.73	-21.72	156.25	154.98	1.27	123.162	
200.00	200.00	199.90	200.00	0.63	0.63	-7.99	154.73	-21.72	156.25	154.26	1.99	78.691	
300.00	300.00	299.90	300.00	0.99	0.99	-7.99	154.73	-21.72	156.25	153.54	2.70	57.815	
400.00	400.00	399.90	400.00	1.35	1.35	-7.99	154.73	-21.72	156.25	152.83	3.42	45.693	
500.00	500.00	499.90	500.00	1.71	1.71	-7.99	154.73	-21.72	156.25	152.11	4.14	37.774	
600.00	600.00	599.90	600.00	2.07	2.07	-7.99	154.73	-21.72	156.25	151.39	4.85	32.194	
700.00	700.00	699.90	700.00	2.43	2.43	-7.99	154.73	-21.72	156.25	150.68	5.57	28.050	
800.00	800.00	799.90	800.00	2.79	2.78	-7.99	154.73	-21.72	156.25	149.96	6.29	24.851	
900.00	900.00	899.90	900.00	3.14	3.14	-7.99	154.73	-21.72	156.25	149.24	7.00	22.308	
1,000.00	1,000.00	999.90	1,000.00	3.50	3.50	-7.99	154.73	-21.72	156.25	148.52	7.71	20.293	
1,100.00	1,100.00	1,099.16	1,099.26	3.86	3.85	-8.29	154.84	-22.57	156.48	147.80	8.41	18.689	
1,200.00	1,200.00	1,198.36	1,198.42	4.22	4.19	-9.20	155.19	-25.12	157.21	147.08	9.12	17.391	
1,300.00	1,300.00	1,297.45	1,297.41	4.58	4.54	-10.68	155.76	-29.37	158.52	146.36	9.82	16.349	
1,400.00	1,400.00	1,396.35	1,396.13	4.94	4.88	-12.71	156.55	-35.30	160.53	145.64	10.52	15.460	
1,500.00	1,499.98	1,495.15	1,494.63	5.29	5.23	62.56	157.57	-42.91	162.59	144.92	11.21	14.616	
1,600.00	1,599.84	1,593.95	1,592.98	5.64	5.58	61.11	158.82	-52.21	163.84	144.20	11.91	13.789	
1,700.00	1,699.45	1,692.74	1,691.16	5.98	5.93	60.19	160.29	-63.18	164.19	143.48	12.61	12.971	
1,800.00	1,798.70	1,791.54	1,789.12	6.34	6.29	59.80	161.98	-75.82	163.54	142.76	13.31	12.159	
1,900.00	1,897.47	1,890.33	1,886.85	6.69	6.64	59.93	163.90	-90.14	161.88	142.04	14.03	11.346	
2,000.00	1,995.62	1,989.55	1,984.76	7.05	7.00	60.65	166.04	-106.08	159.15	141.32	14.75	10.501	
2,100.00	2,093.06	2,089.35	2,083.18	7.41	7.36	62.44	168.23	-122.42	154.93	140.60	15.48	9.664	
2,200.00	2,189.81	2,188.93	2,181.40	7.77	7.73	65.26	170.41	-138.73	149.64	139.88	16.22	8.917	
2,300.00	2,286.50	2,288.49	2,279.59	8.14	8.09	68.35	172.60	-155.03	144.63	139.16	16.96	8.260	
2,400.00	2,383.18	2,388.05	2,377.78	8.51	8.45	71.64	174.78	-171.34	140.07	138.44	17.70	7.685	
2,500.00	2,479.87	2,487.61	2,475.97	8.88	8.82	75.14	176.97	-187.64	136.00	137.72	18.44	7.186	
2,600.00	2,576.55	2,587.17	2,574.16	9.25	9.19	78.84	179.15	-203.95	132.48	137.00	19.18	6.755	
2,700.00	2,673.24	2,686.72	2,672.35	9.63	9.55	82.73	181.34	-220.25	129.54	136.28	19.92	6.388	
2,800.00	2,769.92	2,786.28	2,770.54	10.01	9.92	86.77	183.52	-236.55	127.23	135.56	20.65	6.080	
2,900.00	2,866.61	2,885.84	2,868.73	10.39	10.29	90.94	185.71	-252.86	125.57	134.84	21.39	5.826	
3,000.00	2,963.30	2,985.40	2,966.92	10.77	10.66	95.20	187.89	-269.16	124.60	134.12	22.03	5.644	CC
3,087.52	3,047.92	3,072.53	3,052.86	11.11	10.98	98.96	189.80	-283.43	124.33	133.40	22.12	5.621	
3,100.00	3,059.98	3,084.96	3,065.11	11.15	11.03	99.50	190.08	-285.47	124.34	132.68	22.85	5.460	ES
3,200.00	3,156.67	3,184.52	3,163.30	11.54	11.39	103.79	192.26	-301.77	124.78	131.96	23.59	5.339	
3,300.00	3,253.35	3,284.08	3,261.49	11.92	11.76	108.03	194.45	-318.08	125.92	131.24	24.32	5.253	
3,400.00	3,350.04	3,383.64	3,359.68	12.31	12.13	112.17	196.63	-334.38	127.74	130.52	25.05	5.198	
3,500.00	3,446.73	3,483.20	3,457.88	12.70	12.50	116.18	198.82	-350.68	130.22	129.80	25.78	5.170	
3,600.00	3,543.41	3,582.75	3,556.07	13.09	12.88	120.02	201.00	-366.99	133.31	129.08	26.52	5.165	SF
3,700.00	3,640.10	3,682.31	3,654.26	13.48	13.25	123.67	203.19	-383.29	136.97	128.36	27.26	5.179	
3,800.00	3,736.78	3,781.87	3,752.45	13.86	13.62	127.12	205.37	-399.60	141.16	127.64	28.00	5.209	
3,900.00	3,833.47	3,881.43	3,850.64	14.26	13.99	130.36	207.56	-415.90	145.84	126.92	28.74	5.252	
4,000.00	3,930.15	3,980.99	3,948.83	14.65	14.36	133.39	209.74	-432.21	150.96	126.20	29.49	5.306	
4,100.00	4,026.84	4,080.55	4,047.02	15.04	14.73	136.22	211.93	-448.51	156.47	125.48	30.23	5.369	
4,200.00	4,123.53	4,180.11	4,145.21	15.43	15.10	138.85	214.11	-464.81	162.34	124.76	30.99	5.439	
4,300.00	4,220.21	4,279.67	4,243.40	15.82	15.48	141.29	216.30	-481.12	168.52	124.04	31.74	5.513	
4,400.00	4,316.90	4,379.23	4,341.59	16.21	15.85	143.56	218.48	-497.42	174.99	123.32	32.50	5.592	
4,500.00	4,413.58	4,478.78	4,439.78	16.61	16.22	145.66	220.67	-513.73	181.72	122.60	33.25	5.674	
4,600.00	4,510.27	4,578.34	4,537.97	17.00	16.59	147.61	222.85	-530.03	188.67	121.88	34.01	5.757	
4,700.00	4,606.96	4,677.90	4,636.16	17.39	16.97	149.42	225.04	-546.34	195.82	121.16	34.77	5.842	
4,800.00	4,703.64	4,777.46	4,734.35	17.79	17.34	151.10	227.22	-562.64	203.16	120.44	35.54	5.928	
4,900.00	4,800.33	4,877.02	4,832.54	18.18	17.71	152.67	229.41	-578.94	210.66	119.72	36.30	6.014	
5,000.00	4,897.01	4,976.58	4,930.73	18.58	18.08	154.12	231.59	-595.25	218.30	119.00			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 14H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset		+N/-S	+E/-W	Between	Between			
Depth	Depth	Depth	Depth	(usft)	(usft)	(")	(usft)	(usft)	Centres	Ellipses	(usft)		
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)			
5,100.00	4,993.70	5,076.14	5,028.92	18.97	18.46	155.48	233.78	-611.55	226.07	189.01	37.07	6.099	
5,200.00	5,090.38	5,175.70	5,127.11	19.37	18.83	156.74	235.96	-627.86	233.97	196.13	37.83	6.184	
5,300.00	5,187.07	5,275.26	5,225.30	19.76	19.20	157.93	238.15	-644.16	241.97	203.37	38.60	6.269	
5,400.00	5,283.76	5,374.81	5,323.49	20.16	19.58	159.03	240.33	-660.46	250.06	210.69	39.37	6.352	
5,500.00	5,380.44	5,474.37	5,421.68	20.55	19.95	160.07	242.52	-676.77	258.24	218.11	40.14	6.434	
5,600.00	5,477.13	5,573.93	5,519.88	20.95	20.32	161.04	244.71	-693.07	266.51	225.60	40.90	6.515	
5,700.00	5,573.81	5,673.49	5,618.07	21.35	20.70	161.96	246.89	-709.38	274.84	233.16	41.67	6.595	
5,800.00	5,670.50	5,773.05	5,716.26	21.74	21.07	162.82	249.08	-725.68	283.24	240.79	42.44	6.673	
5,900.00	5,767.19	5,872.61	5,814.45	22.14	21.45	163.63	251.26	-741.99	291.70	248.48	43.22	6.750	
6,000.00	5,863.87	5,972.17	5,912.64	22.54	21.82	164.40	253.45	-758.29	300.21	256.22	43.99	6.825	
6,100.00	5,960.56	6,071.73	6,010.83	22.93	22.19	165.12	255.63	-774.59	308.77	264.02	44.76	6.899	
6,200.00	6,057.24	6,171.29	6,109.02	23.33	22.57	165.80	257.82	-790.90	317.39	271.86	45.53	6.971	
6,300.00	6,153.93	6,270.84	6,207.21	23.73	22.94	166.45	260.00	-807.20	326.04	279.74	46.30	7.042	
6,400.00	6,250.61	6,370.40	6,305.40	24.13	23.31	167.07	262.19	-823.51	334.73	287.66	47.07	7.111	
6,500.00	6,347.30	6,469.96	6,403.59	24.52	23.69	167.65	264.37	-839.81	343.46	295.61	47.85	7.178	
6,600.00	6,443.99	6,569.52	6,501.78	24.92	24.06	168.20	266.56	-856.12	352.22	303.60	48.62	7.244	
6,700.00	6,540.67	6,669.08	6,599.97	25.32	24.44	168.73	268.74	-872.42	361.01	311.62	49.39	7.309	
6,800.00	6,637.36	6,768.64	6,698.16	25.72	24.81	169.23	270.93	-888.72	369.84	319.67	50.17	7.372	
6,900.00	6,734.04	6,868.20	6,796.35	26.11	25.19	169.71	273.11	-905.03	378.69	327.75	50.94	7.434	
7,000.00	6,830.73	6,967.76	6,894.54	26.51	25.56	170.17	275.30	-921.33	387.56	335.85	51.71	7.494	
7,100.00	6,927.42	7,067.32	6,992.73	26.91	25.93	170.61	277.48	-937.64	396.46	343.97	52.49	7.553	
7,200.00	7,024.10	7,166.87	7,090.92	27.31	26.31	171.02	279.67	-953.94	405.38	352.11	53.26	7.611	
7,300.00	7,120.78	7,266.40	7,189.08	27.70	26.68	-165.02	281.85	-970.24	414.38	360.35	54.03	7.669	
7,400.00	7,216.15	7,364.44	7,285.78	28.08	27.05	-138.85	284.00	-986.30	423.93	369.17	54.76	7.742	
7,500.00	7,307.37	7,458.08	7,378.12	28.42	27.40	-127.55	286.06	-1,001.63	435.70	380.27	55.42	7.861	
7,600.00	7,391.67	7,544.46	7,463.32	28.72	27.73	-123.67	287.95	-1,015.78	442.76	396.74	56.02	8.082	
7,700.00	7,466.49	7,620.97	7,538.78	28.97	28.02	-122.58	289.63	-1,028.31	478.67	422.14	56.53	8.467	
7,800.00	7,529.56	7,685.28	7,602.20	29.18	28.26	-121.69	291.04	-1,038.84	516.26	459.31	56.95	9.065	
7,900.00	7,578.96	7,735.44	7,651.67	29.35	28.45	-119.33	292.15	-1,047.05	566.63	509.38	57.25	9.897	
8,000.00	7,613.19	7,769.91	7,685.67	29.50	28.58	-114.29	292.90	-1,052.70	628.94	571.51	57.43	10.951	
8,100.00	7,631.21	7,787.66	7,703.18	29.65	28.64	-105.63	293.29	-1,055.60	700.75	643.27	57.48	12.191	
8,200.00	7,634.00	7,789.72	7,705.21	29.80	28.65	-98.87	293.34	-1,055.94	778.86	721.43	57.43	13.562	
8,300.00	7,634.00	7,788.91	7,704.41	29.95	28.65	-98.77	293.32	-1,055.81	861.41	804.04	57.37	15.015	
8,400.00	7,634.00	7,788.04	7,703.55	30.12	28.64	-98.44	293.30	-1,055.67	947.18	889.86	57.32	16.524	
8,500.00	7,634.00	7,786.70	7,702.22	30.30	28.64	-97.79	293.27	-1,055.45	1,034.17	976.89	57.28	18.055	
8,600.00	7,634.00	7,784.78	7,700.33	30.49	28.63	-97.10	293.23	-1,055.13	1,121.77	1,064.53	57.24	19.596	
8,700.00	7,634.00	7,782.53	7,698.11	30.68	28.62	-96.83	293.18	-1,054.76	1,210.43	1,153.22	57.21	21.156	
8,800.00	7,634.00	7,780.28	7,695.90	30.89	28.62	-96.59	293.13	-1,054.39	1,300.73	1,243.54	57.19	22.743	
8,900.00	7,634.00	7,778.03	7,693.68	31.11	28.61	-96.35	293.08	-1,054.03	1,392.35	1,335.18	57.18	24.352	
9,000.00	7,634.00	7,775.78	7,691.46	31.34	28.60	-96.12	293.03	-1,053.66	1,485.05	1,427.89	57.16	25.979	
9,100.00	7,634.00	7,773.53	7,689.24	31.59	28.59	-95.88	292.98	-1,053.29	1,578.64	1,521.48	57.15	27.621	
9,200.00	7,634.00	10,799.38	9,298.08	31.85	37.19	-179.96	-1,292.38	-1,583.46	1,664.08	1,622.34	41.73	39.874	
9,200.62	7,634.00	10,800.00	9,298.08	31.85	37.19	-179.96	-1,292.99	-1,583.53	1,664.08	1,622.34	41.74	39.869	
9,300.00	7,634.00	10,898.97	9,298.08	32.13	37.46	179.70	-1,391.49	-1,593.19	1,664.11	1,621.44	42.66	39.005	
9,400.00	7,634.00	10,999.15	9,298.10	32.41	37.74	179.47	-1,491.47	-1,599.49	1,664.17	1,620.49	43.68	38.101	
9,500.00	7,634.00	11,099.67	9,298.11	32.72	38.03	179.36	-1,591.94	-1,602.29	1,664.21	1,619.44	44.77	37.171	
9,600.00	7,634.00	11,199.74	9,298.12	33.03	38.32	179.33	-1,692.01	-1,602.94	1,664.24	1,618.32	45.92	36.243	
9,700.00	7,634.00	11,299.74	9,298.14	33.36	38.62	179.29	-1,792.00	-1,603.56	1,664.26	1,617.18	47.09	35.343	
9,800.00	7,634.00	11,399.73	9,298.15	33.70	38.93	179.26	-1,892.00	-1,604.19	1,664.29	1,616.01	48.28	34.472	
9,900.00	7,634.00	11,499.73	9,298.17	34.05	39.25	179.23	-1,991.99	-1,604.81	1,664.32	1,614.83	49.49	33.628	
10,000.00	7,634.00	11,599.72	9,298.18	34.42	39.59	179.20	-2,091.98	-1,605.43	1,664.35	1,613.62	50.72	32.813	
10,100.00	7,634.00	11,699.72	9,298.20	34.80	39.93	179.16	-2,191.98	-1,606.06	1,664.37	1,612.40	51.97	32.026	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy
Project: Eddy County, NM (NAD 83)
Reference Site: Pintail 23-26-35 Federal Com
Site Error: 0.00 usft
Reference Well: Pintail 23-26-35 Federal Com 12H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan 1
Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: .Total Directional Production DB
Offset TVD Reference: Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 14H - OH - Plan 1
Survey Program: 0-MWD+IFR1+MS
Reference: Offset
Measured Vertical Measured Vertical Reference Offset Semi Major Axis Highside Offset Wellbore Centre Distance Rule Assigned: Offset Site Error: 0.00 usft
Warning

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 14H - OH - Plan 1

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Reference	Vertical	Measured	Vertical	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)								
15,400.00	7,634.00	16,999.59	9,298.96	65.21	68.47	178.55	-7,491.74	-1,639.07	1,665.50	1,536.87	128.62	12.948	
15,500.00	7,634.00	17,099.58	9,298.98	65.88	69.12	178.56	-7,591.74	-1,639.69	1,665.50	1,535.35	130.16	12.796	
15,600.00	7,634.00	17,199.58	9,298.99	66.56	69.78	178.57	-7,691.73	-1,640.31	1,665.51	1,533.82	131.69	12.648	
15,700.00	7,634.00	17,299.58	9,299.01	67.24	70.43	178.59	-7,791.73	-1,640.93	1,665.51	1,532.29	133.22	12.502	
15,800.00	7,634.00	17,399.58	9,299.02	67.93	71.09	178.60	-7,891.73	-1,641.56	1,665.52	1,530.77	134.75	12.360	
15,900.00	7,634.00	17,499.58	9,299.04	68.61	71.75	178.61	-7,991.73	-1,642.18	1,665.52	1,529.24	136.29	12.221	
16,000.00	7,634.00	17,599.58	9,299.05	69.30	72.42	178.63	-8,091.72	-1,642.80	1,665.53	1,527.71	137.82	12.085	
16,100.00	7,634.00	17,699.58	9,299.07	69.99	73.08	178.64	-8,191.72	-1,643.43	1,665.54	1,526.18	139.36	11.951	
16,200.00	7,634.00	17,799.58	9,299.08	70.68	73.75	178.65	-8,291.72	-1,644.05	1,665.54	1,524.65	140.90	11.821	
16,300.00	7,634.00	17,899.58	9,299.10	71.37	74.42	178.67	-8,391.72	-1,644.67	1,665.55	1,523.11	142.43	11.693	
16,400.00	7,634.00	17,999.58	9,299.11	72.06	75.09	178.68	-8,491.71	-1,645.29	1,665.55	1,521.58	143.97	11.569	
16,500.00	7,634.00	18,099.58	9,299.12	72.76	75.76	178.69	-8,591.71	-1,645.92	1,665.56	1,520.05	145.51	11.446	
16,600.00	7,634.00	18,199.58	9,299.14	73.45	76.44	178.70	-8,691.71	-1,646.54	1,665.56	1,518.51	147.05	11.326	
16,700.00	7,634.00	18,299.58	9,299.15	74.15	77.11	178.72	-8,791.70	-1,647.16	1,665.57	1,516.98	148.59	11.209	
16,800.00	7,634.00	18,399.58	9,299.17	74.85	77.79	178.73	-8,891.70	-1,647.79	1,665.58	1,515.44	150.13	11.094	
16,900.00	7,634.00	18,499.57	9,299.18	75.55	78.47	178.74	-8,991.70	-1,648.41	1,665.58	1,513.91	151.68	10.981	
17,000.00	7,634.00	18,599.57	9,299.20	76.25	79.15	178.76	-9,091.70	-1,649.03	1,665.59	1,512.37	153.22	10.871	
17,100.00	7,634.00	18,699.57	9,299.21	76.95	79.83	178.77	-9,191.69	-1,649.65	1,665.60	1,510.83	154.76	10.762	
17,200.00	7,634.00	18,799.57	9,299.23	77.65	80.51	178.78	-9,291.69	-1,650.28	1,665.60	1,509.29	156.31	10.656	
17,300.00	7,634.00	18,899.57	9,299.24	78.36	81.20	178.79	-9,391.69	-1,650.90	1,665.61	1,507.76	157.85	10.552	
17,400.00	7,634.00	18,999.57	9,299.25	79.06	81.89	178.81	-9,491.69	-1,651.52	1,665.61	1,506.22	159.40	10.449	
17,500.00	7,634.00	19,099.57	9,299.27	79.77	82.57	178.82	-9,591.68	-1,652.15	1,665.62	1,504.68	160.94	10.349	
17,600.00	7,634.00	19,199.57	9,299.28	80.48	83.26	178.83	-9,691.68	-1,652.77	1,665.63	1,503.14	162.49	10.251	
17,700.00	7,634.00	19,299.57	9,299.30	81.19	83.95	178.85	-9,791.68	-1,653.39	1,665.64	1,501.60	164.04	10.154	
17,800.00	7,634.00	19,399.57	9,299.31	81.90	84.65	178.86	-9,891.68	-1,654.01	1,665.64	1,500.06	165.58	10.059	
17,900.00	7,634.00	19,499.57	9,299.33	82.61	85.34	178.87	-9,991.67	-1,654.64	1,665.65	1,498.52	167.13	9.966	
18,000.00	7,634.00	19,599.57	9,299.34	83.32	86.03	178.89	-10,091.67	-1,655.26	1,665.66	1,496.98	168.68	9.875	
18,100.00	7,634.00	19,699.57	9,299.36	84.03	86.73	178.90	-10,191.67	-1,655.88	1,665.66	1,495.43	170.23	9.785	
18,200.00	7,634.00	19,799.56	9,299.37	84.74	87.43	178.92	-10,291.66	-1,656.51	1,665.66	1,493.88	171.78	9.696	
18,300.00	7,634.00	19,899.56	9,299.38	85.46	88.12	178.94	-10,391.66	-1,657.13	1,665.67	1,492.33	173.34	9.609	
18,400.00	7,634.00	19,999.56	9,299.40	86.17	88.82	178.97	-10,491.66	-1,657.75	1,665.67	1,490.78	174.89	9.524	
18,500.00	7,634.00	20,099.56	9,299.41	86.89	89.52	178.99	-10,591.65	-1,658.37	1,665.67	1,489.23	176.44	9.440	
18,600.00	7,634.00	20,199.56	9,299.43	87.60	90.22	179.01	-10,691.65	-1,659.00	1,665.68	1,487.68	178.00	9.358	
18,700.00	7,634.00	20,299.55	9,299.44	88.32	90.93	179.03	-10,791.64	-1,659.62	1,665.68	1,486.13	179.55	9.277	
18,800.00	7,634.00	20,399.55	9,299.46	89.04	91.63	179.05	-10,891.64	-1,660.24	1,665.69	1,484.58	181.11	9.197	
18,900.00	7,634.00	20,499.55	9,299.47	89.76	92.33	179.07	-10,991.64	-1,660.87	1,665.69	1,483.03	182.66	9.119	
19,000.00	7,634.00	20,599.55	9,299.49	90.48	93.04	179.09	-11,091.63	-1,661.49	1,665.69	1,481.47	184.22	9.042	
19,100.00	7,634.00	20,699.55	9,299.50	91.20	93.74	179.12	-11,191.63	-1,662.11	1,665.70	1,479.92	185.78	8.966	
19,200.00	7,634.00	20,799.54	9,299.52	91.92	94.45	179.14	-11,291.62	-1,662.73	1,665.70	1,478.37	187.33	8.892	
19,300.00	7,634.00	20,899.54	9,299.53	92.64	95.16	179.16	-11,391.62	-1,663.36	1,665.71	1,476.82	188.89	8.818	
19,400.00	7,634.00	20,999.54	9,299.54	93.37	95.87	179.18	-11,491.62	-1,663.98	1,665.71	1,475.27	190.45	8.746	
19,500.00	7,634.00	21,099.54	9,299.56	94.09	96.58	179.20	-11,591.61	-1,664.60	1,665.72	1,473.71	192.01	8.675	
19,600.00	7,634.00	21,199.54	9,299.57	94.81	97.29	179.22	-11,691.61	-1,665.23	1,665.73	1,472.16	193.56	8.606	
19,700.00	7,634.00	21,299.53	9,299.59	95.54	98.00	179.24	-11,791.60	-1,665.85	1,665.73	1,470.61	195.12	8.537	
19,800.00	7,634.00	21,399.53	9,299.60	96.26	98.71	179.27	-11,891.60	-1,666.47	1,665.74	1,469.06	196.68	8.469	
19,900.00	7,634.00	21,499.53	9,299.62	96.99	99.42	179.29	-11,991.60	-1,667.09	1,665.75	1,467.51	198.24	8.403	
20,000.00	7,634.00	21,599.53	9,299.63	97.71	100.13	179.31	-12,091.59	-1,667.72	1,665.75	1,465.95	199.80	8.337	
20,100.00	7,634.00	21,699.53	9,299.65	98.44	100.85	179.33	-12,191.59	-1,668.34	1,665.76	1,464.40	201.36	8.273	
20,200.00	7,634.00	21,799.53	9,299.66	99.17	101.56	179.35	-12,291.59	-1,668.96	1,665.77	1,462.85	202.92	8.209	
20,300.00	7,634.00	21,899.52	9,299.67	99.89	102.28	179.37	-12,391.58	-1,669.59	1,665.77	1,461.30	204.48	8.146	
20,400.00	7,634.00	21,999.52	9,299.69	100.62	103.00	179.39	-12,491.58	-1,670.21	1,665.78	1,459.74	206.04	8.085	
20,500.00	7,634.00	22,099.52	9,299.70	101.35	103.71	179.41	-12,591.57	-1,670.83	1,665.79	1,458.19	207.60	8.024	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 14H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,600.00	7,634.00	22,199.52	9,299.72	102.08	104.43	179.44	-12,691.57	-1,671.45	1,665.80	1,456.64	209.16	7.964	
20,700.00	7,634.00	22,299.52	9,299.73	102.81	105.15	179.46	-12,791.57	-1,672.08	1,665.81	1,455.09	210.72	7.905	
20,800.00	7,634.00	22,399.51	9,299.75	103.54	105.87	179.48	-12,891.56	-1,672.70	1,665.82	1,453.53	212.28	7.847	
20,900.00	7,634.00	22,499.51	9,299.76	104.27	106.59	179.50	-12,991.56	-1,673.32	1,665.82	1,451.98	213.84	7.790	
21,000.00	7,634.00	22,599.51	9,299.78	105.00	107.31	179.52	-13,091.55	-1,673.94	1,665.83	1,450.43	215.41	7.733	
21,100.00	7,634.00	22,699.51	9,299.79	105.74	108.03	179.54	-13,191.55	-1,674.57	1,665.84	1,448.88	216.97	7.678	
21,200.00	7,634.00	22,799.51	9,299.81	106.47	108.75	179.56	-13,291.55	-1,675.19	1,665.85	1,447.32	218.53	7.623	
21,300.00	7,634.00	22,899.50	9,299.82	107.20	109.47	179.59	-13,391.54	-1,675.81	1,665.86	1,445.77	220.09	7.569	
21,400.00	7,634.00	22,999.50	9,299.83	107.93	110.19	179.61	-13,491.54	-1,676.44	1,665.87	1,444.22	221.65	7.516	
21,500.00	7,634.00	23,099.50	9,299.85	108.67	110.92	179.63	-13,591.54	-1,677.06	1,665.88	1,442.67	223.22	7.463	
21,600.00	7,634.00	23,199.50	9,299.86	109.40	111.64	179.65	-13,691.53	-1,677.68	1,665.89	1,441.11	224.78	7.411	
21,700.00	7,634.00	23,299.50	9,299.88	110.14	112.36	179.67	-13,791.53	-1,678.30	1,665.90	1,439.56	226.34	7.360	
21,800.00	7,634.00	23,399.49	9,299.89	110.87	113.09	179.69	-13,891.52	-1,678.93	1,665.92	1,438.01	227.91	7.310	
21,900.00	7,634.00	23,499.49	9,299.91	111.61	113.81	179.71	-13,991.52	-1,679.55	1,665.93	1,436.46	229.47	7.260	
22,000.00	7,634.00	23,599.49	9,299.92	112.34	114.54	179.74	-14,091.52	-1,680.17	1,665.94	1,434.90	231.03	7.211	
22,100.00	7,634.00	23,699.49	9,299.94	113.08	115.27	179.76	-14,191.51	-1,680.80	1,665.95	1,433.35	232.60	7.162	
22,200.00	7,634.00	23,799.49	9,299.95	113.81	115.99	179.78	-14,291.51	-1,681.42	1,665.96	1,431.80	234.16	7.115	
22,300.00	7,634.00	23,899.48	9,299.96	114.55	116.72	179.80	-14,391.50	-1,682.04	1,665.97	1,430.25	235.73	7.067	
22,400.00	7,634.00	23,999.48	9,299.98	115.29	117.45	179.82	-14,491.50	-1,682.66	1,665.99	1,428.70	237.29	7.021	
22,500.00	7,634.00	24,099.48	9,299.99	116.02	118.18	179.84	-14,591.50	-1,683.29	1,666.00	1,427.14	238.86	6.975	
22,600.00	7,634.00	24,199.48	9,300.01	116.76	118.90	179.86	-14,691.49	-1,683.91	1,666.01	1,425.59	240.42	6.930	
22,700.00	7,634.00	24,299.48	9,300.02	117.50	119.63	179.89	-14,791.49	-1,684.53	1,666.03	1,424.04	241.99	6.885	
22,800.00	7,634.00	24,399.48	9,300.04	118.24	120.36	179.91	-14,891.48	-1,685.16	1,666.04	1,422.49	243.55	6.841	
22,900.00	7,634.00	24,499.47	9,300.05	118.98	121.09	179.93	-14,991.48	-1,685.78	1,666.05	1,420.94	245.12	6.797	
23,000.00	7,634.00	24,599.47	9,300.07	119.72	121.82	179.95	-15,091.48	-1,686.40	1,666.07	1,419.38	246.68	6.754	
23,100.00	7,634.00	24,699.47	9,300.08	120.46	122.55	179.97	-15,191.47	-1,687.02	1,666.08	1,417.83	248.25	6.711	
23,200.00	7,634.00	24,799.47	9,300.10	121.19	123.28	179.99	-15,291.47	-1,687.65	1,666.09	1,416.28	249.81	6.669	
23,235.54	7,634.00	24,835.01	9,300.10	121.46	123.54	180.00	-15,327.01	-1,687.87	1,666.10	1,415.73	250.37	6.655	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 15H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.20	0.00	0.00	-0.64	154.95	-1.73	154.96				
100.00	100.00	99.80	100.00	0.28	0.28	-0.64	154.95	-1.73	154.96	154.41	0.55	280.981	
200.00	200.00	199.80	200.00	0.63	0.63	-0.64	154.95	-1.73	154.96	153.69	1.27	122.182	
300.00	300.00	299.80	300.00	0.99	0.99	-0.64	154.95	-1.73	154.96	152.97	1.99	78.057	
400.00	400.00	399.80	400.00	1.35	1.35	-0.64	154.95	-1.73	154.96	152.26	2.70	57.347	
500.00	500.00	499.80	500.00	1.71	1.71	-0.64	154.95	-1.73	154.96	151.54	3.42	45.322	
600.00	600.00	599.80	600.00	2.07	2.07	-0.64	154.95	-1.73	154.96	150.82	4.14	37.466	
700.00	700.00	699.80	700.00	2.43	2.43	-0.64	154.95	-1.73	154.96	150.11	4.85	31.931	
800.00	800.00	799.80	800.00	2.79	2.78	-0.64	154.95	-1.73	154.96	149.39	5.57	27.821	
900.00	900.00	899.80	900.00	3.14	3.14	-0.64	154.95	-1.73	154.96	148.67	6.29	24.648	
1,000.00	1,000.00	999.80	1,000.00	3.50	3.50	-0.64	154.95	-1.73	154.96	147.96	7.00	22.125	
1,100.00	1,100.00	1,099.80	1,100.00	3.86	3.86	-0.64	154.95	-1.73	154.96	147.24	7.72	20.071	
1,200.00	1,200.00	1,199.80	1,200.00	4.22	4.22	-0.64	154.95	-1.73	154.96	146.52	8.44	18.365	CC
1,300.00	1,300.00	1,297.87	1,298.05	4.58	4.56	-1.21	155.53	-3.30	155.58	146.44	9.14	17.018	ES
1,400.00	1,400.00	1,395.71	1,395.75	4.94	4.91	-2.91	157.27	-8.00	157.53	147.69	9.84	16.009	
1,500.00	1,499.98	1,493.24	1,492.93	5.29	5.25	72.18	160.15	-15.79	160.54	150.01	10.53	15.247	
1,600.00	1,599.84	1,590.55	1,589.54	5.64	5.59	70.14	164.17	-26.66	164.17	152.96	11.21	14.642	
1,700.00	1,699.45	1,690.24	1,688.28	5.98	5.95	68.69	168.94	-39.56	167.63	155.72	11.91	14.072	
1,800.00	1,798.70	1,790.21	1,787.29	6.34	6.30	68.40	173.73	-52.50	169.88	157.26	12.62	13.461	
1,900.00	1,897.47	1,890.17	1,886.30	6.69	6.66	69.22	178.52	-65.44	170.86	157.53	13.33	12.814	
2,000.00	1,995.62	1,990.00	1,985.17	7.05	7.02	71.16	183.30	-78.36	170.73	156.67	14.05	12.149	
2,100.00	2,093.06	2,089.58	2,083.79	7.41	7.38	74.22	188.06	-91.25	169.80	155.02	14.78	11.492	
2,200.00	2,189.81	2,188.86	2,182.13	7.77	7.74	78.22	192.82	-104.10	168.76	153.25	15.50	10.887	
2,277.28	2,264.53	2,265.56	2,258.09	8.05	8.02	81.40	196.49	-114.03	168.49	152.43	16.06	10.489	
2,300.00	2,286.50	2,288.11	2,280.43	8.14	8.10	82.34	197.57	-116.94	168.51	152.29	16.23	10.383	
2,400.00	2,383.18	2,387.37	2,378.73	8.51	8.46	86.44	202.32	-129.79	169.16	152.20	16.96	9.974	
2,500.00	2,479.87	2,486.62	2,477.04	8.88	8.82	90.49	207.07	-142.64	170.67	152.98	17.69	9.648	
2,600.00	2,576.55	2,585.87	2,575.34	9.25	9.18	94.46	211.83	-155.49	173.03	154.61	18.42	9.394	
2,700.00	2,673.24	2,685.13	2,673.65	9.63	9.54	98.30	216.58	-168.33	176.20	157.06	19.15	9.202	
2,800.00	2,769.92	2,784.38	2,771.95	10.01	9.91	101.99	221.33	-181.18	180.15	160.27	19.88	9.063	
2,900.00	2,866.61	2,883.63	2,870.25	10.39	10.27	105.51	226.08	-194.03	184.82	164.21	20.61	8.969	
3,000.00	2,963.30	2,982.89	2,968.56	10.77	10.63	108.84	230.84	-206.88	190.16	168.82	21.34	8.912	
3,100.00	3,059.98	3,082.14	3,068.86	11.15	11.00	111.99	235.59	-219.72	196.11	174.05	22.07	8.887	
3,200.00	3,156.67	3,181.39	3,165.16	11.54	11.36	114.94	240.34	-232.57	202.63	179.83	22.80	8.888	
3,300.00	3,253.35	3,280.65	3,263.47	11.92	11.72	117.71	245.09	-245.42	209.65	186.12	23.53	8.910	
3,400.00	3,350.04	3,379.90	3,361.77	12.31	12.09	120.29	249.85	-258.26	217.13	192.86	24.26	8.949	
3,500.00	3,446.73	3,479.15	3,460.07	12.70	12.45	122.70	254.60	-271.11	225.02	200.02	25.00	9.002	
3,600.00	3,543.41	3,578.41	3,558.38	13.09	12.82	124.94	259.35	-283.96	233.28	207.55	25.73	9.066	
3,700.00	3,640.10	3,677.66	3,656.68	13.48	13.18	127.03	264.10	-296.81	241.88	215.41	26.47	9.138	
3,800.00	3,736.78	3,776.91	3,754.98	13.86	13.55	128.97	268.85	-309.65	250.77	223.57	27.21	9.217	
3,900.00	3,833.47	3,876.17	3,853.29	14.26	13.91	130.78	273.61	-322.50	259.94	231.99	27.95	9.301	
4,000.00	3,930.15	3,975.42	3,951.59	14.65	14.28	132.47	278.36	-335.35	269.34	240.65	28.69	9.389	
4,100.00	4,026.84	4,074.67	4,049.89	15.04	14.64	134.04	283.11	-348.19	278.96	249.53	29.43	9.479	
4,200.00	4,123.53	4,173.93	4,148.20	15.43	15.01	135.50	287.86	-361.04	288.78	258.60	30.17	9.570	
4,300.00	4,220.21	4,273.18	4,246.50	15.82	15.37	136.87	292.62	-373.89	298.77	267.85	30.92	9.663	
4,400.00	4,316.90	4,372.43	4,344.81	16.21	15.74	138.15	297.37	-386.74	308.92	277.25	31.66	9.756	
4,500.00	4,413.58	4,471.69	4,443.11	16.61	16.11	139.35	302.12	-399.58	319.21	286.80	32.41	9.849	
4,600.00	4,510.27	4,570.94	4,541.41	17.00	16.47	140.47	306.87	-412.43	329.63	296.47	33.16	9.941	
4,700.00	4,606.96	4,667.50	4,637.07	17.39	16.83	141.52	311.43	-424.76	340.31	306.42	33.90	10.040	
4,800.00	4,703.64	4,758.61	4,727.62	17.79	17.16	142.72	314.94	-434.24	352.89	318.29	34.60	10.200	
4,900.00	4,800.33	4,848.80	4,817.52	18.18	17.49	144.14	317.43	-440.96	367.91	332.64	35.27	10.430	
5,000.00	4,897.01	4,937.89	4,906.50	18.58	17.80	145.72	318.92	-444.99	385.48	349.56	35.92	10.732	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 15H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,993.70	5,025.75	4,994.34	18.97	18.11	147.40	319.45	-446.42	405.70	369.16	36.54	11.104		
5,200.00	5,090.38	5,121.79	5,090.38	19.37	18.45	149.22	319.45	-446.43	427.62	390.38	37.24	11.484		
5,300.00	5,187.07	5,218.48	5,187.07	19.76	18.78	150.87	319.45	-446.43	449.92	411.97	37.95	11.856		
5,400.00	5,283.76	5,315.16	5,283.76	20.16	19.12	152.36	319.45	-446.43	472.55	433.89	38.66	12.223		
5,500.00	5,380.44	5,411.85	5,380.44	20.55	19.45	153.72	319.45	-446.43	495.47	456.09	39.37	12.583		
5,600.00	5,477.13	5,508.53	5,477.13	20.95	19.79	154.97	319.45	-446.43	518.62	478.53	40.09	12.937		
5,700.00	5,573.81	5,605.22	5,573.81	21.35	20.13	156.10	319.45	-446.43	541.99	501.19	40.81	13.282		
5,800.00	5,670.50	5,701.91	5,670.50	21.74	20.46	157.14	319.45	-446.43	565.55	524.03	41.52	13.620		
5,900.00	5,767.19	5,798.59	5,767.19	22.14	20.80	158.10	319.45	-446.43	589.27	547.03	42.24	13.949		
6,000.00	5,863.87	5,895.28	5,863.87	22.54	21.14	158.99	319.45	-446.43	613.14	570.18	42.96	14.271		
6,100.00	5,960.56	5,991.96	5,960.56	22.93	21.47	159.81	319.45	-446.43	637.14	593.45	43.69	14.585		
6,200.00	6,057.24	6,088.65	6,057.24	23.33	21.81	160.57	319.45	-446.43	661.25	616.84	44.41	14.891		
6,300.00	6,153.93	6,185.34	6,153.93	23.73	22.15	161.28	319.45	-446.43	685.46	640.33	45.13	15.189		
6,400.00	6,250.61	6,282.02	6,250.61	24.13	22.49	161.94	319.45	-446.43	709.77	663.92	45.85	15.479		
6,500.00	6,347.30	6,378.71	6,347.30	24.52	22.83	162.55	319.45	-446.43	734.16	687.58	46.58	15.762		
6,600.00	6,443.99	6,475.39	6,443.99	24.92	23.17	163.13	319.45	-446.43	758.63	711.32	47.30	16.038		
6,700.00	6,540.67	6,572.08	6,540.67	25.32	23.51	163.67	319.45	-446.43	783.16	735.13	48.03	16.307		
6,800.00	6,637.36	6,668.76	6,637.36	25.72	23.85	164.18	319.45	-446.43	807.75	759.00	48.75	16.569		
6,900.00	6,734.04	6,765.45	6,734.04	26.11	24.19	164.66	319.45	-446.43	832.40	782.93	49.48	16.824		
7,000.00	6,830.73	6,862.14	6,830.73	26.51	24.53	165.11	319.45	-446.43	857.11	806.90	50.20	17.072		
7,100.00	6,927.42	6,958.82	6,927.42	26.91	24.87	165.53	319.45	-446.43	881.86	830.93	50.93	17.314		
7,200.00	7,024.10	7,055.51	7,024.10	27.31	25.21	165.94	319.45	-446.43	906.65	854.99	51.66	17.551		
7,300.00	7,120.78	7,152.19	7,120.78	27.70	25.55	-168.80	319.45	-446.43	931.81	879.42	52.39	17.788		
7,400.00	7,216.15	7,247.56	7,216.15	28.08	25.88	-139.45	319.45	-446.43	958.29	905.19	53.09	18.050		
7,500.00	7,307.37	7,338.77	7,307.37	28.42	26.21	-124.04	319.45	-446.43	986.11	932.36	53.75	18.345		
7,600.00	7,391.67	7,423.08	7,391.67	28.72	26.50	-115.71	319.45	-446.43	1,015.84	961.48	54.36	18.689		
7,700.00	7,466.49	7,497.90	7,466.49	28.97	26.77	-110.56	319.45	-446.43	1,048.40	993.52	54.88	19.102		
7,800.00	7,529.56	7,560.97	7,529.56	29.18	26.99	-106.64	319.45	-446.43	1,084.78	1,029.46	55.32	19.609		
7,900.00	7,578.96	7,610.37	7,578.96	29.35	27.16	-102.84	319.45	-446.43	1,125.67	1,070.02	55.65	20.228		
8,000.00	7,613.19	7,644.60	7,613.19	29.50	27.28	-98.51	319.45	-446.43	1,171.23	1,115.37	55.86	20.968		
8,100.00	7,631.21	7,662.62	7,631.21	29.65	27.35	-93.35	319.45	-446.43	1,220.95	1,165.01	55.94	21.826		
8,200.00	7,634.00	7,665.41	7,634.00	29.80	27.36	-90.00	319.45	-446.43	1,273.96	1,218.05	55.91	22.787		
8,300.00	7,634.00	9,100.00	8,504.14	29.95	30.65	-131.32	-478.61	-585.78	1,317.84	1,263.62	54.22	24.307		
8,400.00	7,634.00	9,185.76	8,504.13	30.12	30.77	-131.34	-564.04	-593.25	1,317.43	1,262.73	54.71	24.082		
8,500.00	7,634.00	9,260.12	8,504.12	30.30	30.89	-131.36	-638.27	-597.65	1,316.85	1,261.68	55.17	23.868		
8,600.00	7,634.00	9,334.50	8,504.10	30.49	31.01	-131.41	-712.61	-600.12	1,315.60	1,259.96	55.64	23.643		
8,700.00	7,634.00	9,420.61	8,504.08	30.68	31.16	-131.44	-798.72	-600.94	1,314.59	1,258.40	56.19	23.395		
8,800.00	7,634.00	9,520.61	8,504.05	30.89	31.34	-131.47	-898.71	-601.56	1,313.86	1,257.01	56.85	23.111		
8,900.00	7,634.00	9,620.61	8,504.02	31.11	31.55	-131.50	-998.71	-602.18	1,313.13	1,255.59	57.54	22.821		
9,000.00	7,634.00	9,720.60	8,504.00	31.34	31.77	-131.52	-1,098.70	-602.80	1,312.40	1,254.13	58.26	22.525		
9,100.00	7,634.00	9,820.60	8,503.97	31.59	32.00	-131.55	-1,198.69	-603.42	1,311.67	1,252.65	59.02	22.224		
9,200.00	7,634.00	9,920.59	8,503.94	31.85	32.25	-131.58	-1,298.69	-604.04	1,310.94	1,251.13	59.81	21.920		
9,300.00	7,634.00	10,020.59	8,503.92	32.13	32.52	-131.60	-1,398.68	-604.66	1,310.21	1,249.59	60.62	21.612		
9,400.00	7,634.00	10,120.58	8,503.89	32.41	32.80	-131.63	-1,498.67	-605.28	1,309.48	1,248.01	61.47	21.304		
9,500.00	7,634.00	10,220.58	8,503.86	32.72	33.10	-131.66	-1,598.67	-605.90	1,308.75	1,246.41	62.34	20.994		
9,600.00	7,634.00	10,320.57	8,503.84	33.03	33.41	-131.68	-1,698.66	-606.52	1,308.02	1,244.79	63.24	20.685		
9,700.00	7,634.00	10,420.57	8,503.81	33.36	33.74	-131.71	-1,798.65	-607.14	1,307.29	1,243.14	64.16	20.376		
9,800.00	7,634.00	10,520.56	8,503.78	33.70	34.08	-131.74	-1,898.65	-607.76	1,306.57	1,241.46	65.10	20.069		
9,900.00	7,634.00	10,620.56	8,503.76	34.05	34.43	-131.76	-1,998.64	-608.38	1,305.84	1,239.76	66.07	19.764		
10,000.00	7,634.00	10,720.56	8,503.73	34.42	34.80	-131.79	-2,098.64	-609.00	1,305.11	1,238.05	67.06	19.461		
10,100.00	7,634.00	10,820.55	8,503.70	34.80	35.18	-131.82	-2,198.63	-609.62	1,304.38	1,236.31	68.08	19.161		
10,200.00	7,634.00	10,920.55	8,503.68	35.19	35.57	-131.85	-2,298.62	-610.24	1,303.66	1,234.55	69.11	18.864		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 15H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
10,300.00	7,634.00	11,020.54	8,503.65	35.59	35.98	-131.87	-2,398.62	-610.86	1,302.93	1,232.77	70.16	18.571		
10,400.00	7,634.00	11,120.54	8,503.62	36.00	36.39	-131.90	-2,498.61	-611.48	1,302.20	1,230.97	71.23	18.282		
10,500.00	7,634.00	11,220.53	8,503.60	36.43	36.82	-131.93	-2,598.60	-612.10	1,301.48	1,229.16	72.31	17.997		
10,600.00	7,634.00	11,320.53	8,503.57	36.86	37.25	-131.95	-2,698.60	-612.72	1,300.75	1,227.33	73.42	17.717		
10,700.00	7,634.00	11,420.52	8,503.54	37.30	37.70	-131.98	-2,798.59	-613.34	1,300.03	1,225.49	74.54	17.441		
10,800.00	7,634.00	11,520.52	8,503.52	37.76	38.16	-132.01	-2,898.58	-613.96	1,299.30	1,223.63	75.67	17.170		
10,900.00	7,634.00	11,620.51	8,503.49	38.22	38.63	-132.04	-2,998.58	-614.58	1,298.58	1,221.75	76.82	16.904		
11,000.00	7,634.00	11,720.51	8,503.46	38.70	39.10	-132.06	-3,098.57	-615.20	1,297.85	1,219.87	77.98	16.642		
11,100.00	7,634.00	11,820.51	8,503.44	39.18	39.59	-132.09	-3,198.56	-615.82	1,297.13	1,217.97	79.16	16.386		
11,200.00	7,634.00	11,920.50	8,503.41	39.67	40.08	-132.12	-3,298.56	-616.44	1,296.40	1,216.05	80.35	16.134		
11,300.00	7,634.00	12,020.50	8,503.38	40.17	40.59	-132.14	-3,398.55	-617.06	1,295.68	1,214.13	81.55	15.888		
11,400.00	7,634.00	12,120.49	8,503.36	40.67	41.10	-132.17	-3,498.54	-617.68	1,294.96	1,212.19	82.76	15.646		
11,500.00	7,634.00	12,220.49	8,503.33	41.19	41.61	-132.20	-3,598.54	-618.30	1,294.23	1,210.24	83.99	15.410		
11,600.00	7,634.00	12,320.48	8,503.30	41.71	42.14	-132.23	-3,698.53	-618.92	1,293.51	1,208.29	85.22	15.178		
11,700.00	7,634.00	12,420.48	8,503.28	42.24	42.67	-132.25	-3,798.53	-619.54	1,292.79	1,206.32	86.47	14.951		
11,800.00	7,634.00	12,520.47	8,503.25	42.78	43.21	-132.28	-3,898.52	-620.16	1,292.06	1,204.34	87.72	14.729		
11,900.00	7,634.00	12,620.47	8,503.22	43.32	43.76	-132.31	-3,998.51	-620.78	1,291.34	1,202.36	88.99	14.511		
12,000.00	7,634.00	12,720.47	8,503.20	43.87	44.31	-132.34	-4,098.51	-621.40	1,290.62	1,200.36	90.26	14.299		
12,100.00	7,634.00	12,820.46	8,503.17	44.43	44.87	-132.36	-4,198.50	-622.02	1,289.90	1,198.36	91.54	14.091		
12,200.00	7,634.00	12,920.46	8,503.14	44.99	45.44	-132.39	-4,298.49	-622.64	1,289.18	1,196.35	92.83	13.887		
12,300.00	7,634.00	13,020.45	8,503.12	45.56	46.01	-132.42	-4,398.49	-623.26	1,288.46	1,194.33	94.13	13.688		
12,400.00	7,634.00	13,120.45	8,503.09	46.13	46.59	-132.45	-4,498.48	-623.88	1,287.74	1,192.30	95.44	13.493		
12,500.00	7,634.00	13,220.44	8,503.06	46.71	47.17	-132.48	-4,598.47	-624.50	1,287.02	1,190.27	96.75	13.303		
12,600.00	7,634.00	13,320.44	8,503.04	47.30	47.76	-132.50	-4,698.47	-625.12	1,286.30	1,188.23	98.07	13.116		
12,700.00	7,634.00	13,420.43	8,503.01	47.89	48.35	-132.53	-4,798.46	-625.74	1,285.58	1,186.18	99.40	12.934		
12,800.00	7,634.00	13,520.43	8,502.98	48.48	48.94	-132.56	-4,898.46	-626.36	1,284.91	1,184.18	100.73	12.756		
12,850.52	7,634.00	13,570.95	8,502.97	48.78	49.25	-132.56	-4,948.97	-626.68	1,284.85	1,183.45	101.40	12.671		
12,900.00	7,634.00	13,620.43	8,502.96	49.08	49.55	-132.55	-4,998.45	-626.98	1,285.08	1,183.01	102.07	12.590		
13,000.00	7,634.00	13,720.43	8,502.93	49.68	50.15	-132.54	-5,098.45	-627.60	1,285.29	1,181.87	103.42	12.428		
13,100.00	7,634.00	13,820.43	8,502.90	50.29	50.76	-132.53	-5,198.45	-628.22	1,285.50	1,180.73	104.77	12.269		
13,200.00	7,634.00	13,920.43	8,502.88	50.91	51.38	-132.52	-5,298.45	-628.84	1,285.71	1,179.58	106.13	12.114		
13,300.00	7,634.00	14,020.43	8,502.85	51.52	51.99	-132.51	-5,398.44	-629.46	1,285.92	1,178.42	107.50	11.963		
13,400.00	7,634.00	14,120.43	8,502.82	52.15	52.62	-132.50	-5,498.44	-630.08	1,286.12	1,177.26	108.86	11.814		
13,500.00	7,634.00	14,220.43	8,502.80	52.77	53.24	-132.49	-5,598.44	-630.70	1,286.33	1,176.10	110.24	11.669		
13,600.00	7,634.00	14,320.43	8,502.77	53.40	53.87	-132.48	-5,698.44	-631.32	1,286.54	1,174.93	111.62	11.527		
13,700.00	7,634.00	14,420.43	8,502.74	54.03	54.50	-132.47	-5,798.43	-631.94	1,286.75	1,173.75	113.00	11.387		
13,800.00	7,634.00	14,520.42	8,502.72	54.67	55.14	-132.46	-5,898.43	-632.57	1,286.96	1,172.58	114.38	11.251		
13,900.00	7,634.00	14,620.42	8,502.69	55.30	55.78	-132.45	-5,998.43	-633.19	1,287.17	1,171.39	115.77	11.118		
14,000.00	7,634.00	14,720.42	8,502.66	55.95	56.42	-132.44	-6,098.43	-633.81	1,287.38	1,170.21	117.17	10.987		
14,100.00	7,634.00	14,820.42	8,502.64	56.59	57.07	-132.43	-6,198.42	-634.43	1,287.59	1,169.02	118.57	10.860		
14,200.00	7,634.00	14,920.42	8,502.61	57.24	57.72	-132.41	-6,298.42	-635.05	1,287.80	1,167.83	119.97	10.735		
14,300.00	7,634.00	15,020.42	8,502.58	57.89	58.37	-132.40	-6,398.42	-635.67	1,288.00	1,166.63	121.37	10.612		
14,400.00	7,634.00	15,120.42	8,502.56	58.54	59.02	-132.39	-6,498.42	-636.29	1,288.21	1,165.43	122.78	10.492		
14,500.00	7,634.00	15,220.42	8,502.53	59.20	59.68	-132.38	-6,598.41	-636.91	1,288.42	1,164.23	124.19	10.374		
14,600.00	7,634.00	15,320.42	8,502.50	59.86	60.34	-132.37	-6,698.41	-637.53	1,288.63	1,163.03	125.61	10.259		
14,700.00	7,634.00	15,420.42	8,502.48	60.52	61.00	-132.36	-6,798.41	-638.15	1,288.84	1,161.82	127.02	10.146		
14,800.00	7,634.00	15,520.42	8,502.45	61.18	61.66	-132.35	-6,898.41	-638.77	1,289.05	1,160.61	128.45	10.036		
14,900.00	7,634.00	15,620.42	8,502.42	61.85	62.33	-132.34	-6,998.40	-639.39	1,289.26	1,159.39	129.87	9.927		
15,000.00	7,634.00	15,720.42	8,502.40	62.51	63.00	-132.33	-7,098.40	-640.01	1,289.47	1,158.17	131.29	9.821		
15,100.00	7,634.00	15,820.42	8,502.37	63.18	63.67	-132.32	-7,198.40	-640.63	1,289.68	1,156.96	132.72	9.717		
15,200.00	7,634.00	15,920.42	8,502.34	63.86	64.34	-132.31	-7,298.40	-641.25	1,289.89	1,155.73	134.15	9.615		
15,300.00	7,634.00	16,020.42	8,502.32	64.53	65.01	-132.30	-7,398.40	-641.87	1,290.10	1,154.51	135.59	9.515		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**Total Directional
Anticollision Report**



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 15H - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,400.00	7,634.00	16,120.42	8,502.29	65.21	65.69	-132.29	-7,498.39	-642.49	1,290.31	1,153.28	137.02	9.417		
15,500.00	7,634.00	16,220.42	8,502.26	65.88	66.37	-132.28	-7,598.39	-643.11	1,290.56	1,152.09	138.46	9.321		
15,600.00	7,634.00	16,320.42	8,502.24	66.56	67.05	-132.27	-7,698.39	-643.73	1,290.82	1,150.91	139.90	9.226		
15,700.00	7,634.00	16,420.42	8,502.21	67.24	67.73	-132.26	-7,798.38	-644.35	1,291.08	1,149.73	141.35	9.134		
15,800.00	7,634.00	16,520.41	8,502.18	67.93	68.42	-132.25	-7,898.38	-644.97	1,291.34	1,148.55	142.79	9.044		
15,900.00	7,634.00	16,620.41	8,502.16	68.61	69.10	-132.23	-7,998.38	-645.59	1,291.61	1,147.37	144.24	8.955		
16,000.00	7,634.00	16,720.41	8,502.13	69.30	69.79	-132.22	-8,098.38	-646.21	1,291.87	1,146.18	145.69	8.867		
16,100.00	7,634.00	16,820.41	8,502.10	69.99	70.48	-132.21	-8,198.37	-646.83	1,292.13	1,144.99	147.14	8.782		
16,200.00	7,634.00	16,920.41	8,502.08	70.68	71.17	-132.20	-8,298.37	-647.45	1,292.39	1,143.80	148.59	8.698		
16,300.00	7,634.00	17,020.41	8,502.05	71.37	71.86	-132.18	-8,398.37	-648.07	1,292.66	1,142.61	150.04	8.615		
16,400.00	7,634.00	17,120.41	8,502.02	72.06	72.55	-132.17	-8,498.37	-648.69	1,292.92	1,141.42	151.50	8.534		
16,500.00	7,634.00	17,220.41	8,502.00	72.76	73.25	-132.16	-8,598.36	-649.31	1,293.18	1,140.22	152.96	8.454		
16,600.00	7,634.00	17,320.41	8,501.97	73.45	73.94	-132.15	-8,698.36	-649.93	1,293.44	1,139.02	154.42	8.376		
16,700.00	7,634.00	17,420.41	8,501.94	74.15	74.64	-132.14	-8,798.36	-650.55	1,293.71	1,137.83	155.88	8.299		
16,800.00	7,634.00	17,520.41	8,501.92	74.85	75.34	-132.12	-8,898.36	-651.17	1,293.97	1,136.63	157.34	8.224		
16,900.00	7,634.00	17,620.41	8,501.89	75.55	76.04	-132.11	-8,998.35	-651.79	1,294.23	1,135.42	158.81	8.150		
17,000.00	7,634.00	17,720.41	8,501.86	76.25	76.74	-132.10	-9,098.35	-652.41	1,294.49	1,134.22	160.27	8.077		
17,100.00	7,634.00	17,820.40	8,501.84	76.95	77.44	-132.09	-9,198.35	-653.03	1,294.76	1,133.02	161.74	8.005		
17,200.00	7,634.00	17,920.40	8,501.81	77.65	78.15	-132.08	-9,298.35	-653.65	1,295.02	1,131.81	163.21	7.935		
17,300.00	7,634.00	18,020.40	8,501.78	78.36	78.85	-132.06	-9,398.34	-654.27	1,295.28	1,130.61	164.68	7.866		
17,400.00	7,634.00	18,120.40	8,501.76	79.06	79.56	-132.05	-9,498.34	-654.89	1,295.55	1,129.40	166.15	7.797		
17,500.00	7,634.00	18,220.40	8,501.73	79.77	80.27	-132.04	-9,598.34	-655.51	1,295.81	1,128.19	167.62	7.731		
17,600.00	7,634.00	18,320.40	8,501.70	80.48	80.97	-132.03	-9,698.33	-656.13	1,296.07	1,126.98	169.10	7.665		
17,700.00	7,634.00	18,420.40	8,501.68	81.19	81.68	-132.02	-9,798.33	-656.75	1,296.34	1,125.77	170.57	7.600		
17,800.00	7,634.00	18,520.40	8,501.65	81.90	82.39	-132.00	-9,898.33	-657.37	1,296.60	1,124.55	172.05	7.536		
17,900.00	7,634.00	18,620.40	8,501.62	82.61	83.10	-131.99	-9,998.33	-657.99	1,296.86	1,123.34	173.52	7.474		
18,000.00	7,634.00	18,720.40	8,501.60	83.32	83.82	-131.98	-10,098.32	-658.61	1,297.13	1,122.13	175.00	7.412		
18,100.00	7,634.00	18,820.40	8,501.57	84.03	84.53	-131.96	-10,198.32	-659.23	1,297.40	1,120.92	176.48	7.352		
18,200.00	7,634.00	18,920.40	8,501.54	84.74	85.24	-131.95	-10,298.32	-659.85	1,297.67	1,119.71	177.96	7.293		
18,300.00	7,634.00	19,020.39	8,501.52	85.46	85.96	-131.93	-10,398.31	-660.47	1,297.93	1,118.51	179.44	7.236		
18,400.00	7,634.00	19,120.39	8,501.49	86.17	86.67	-131.91	-10,498.31	-661.09	1,298.20	1,117.30	180.92	7.179		
18,500.00	7,634.00	19,220.39	8,501.46	86.89	87.39	-131.89	-10,598.31	-661.71	1,298.47	1,116.10	182.41	7.123		
18,600.00	7,634.00	19,320.39	8,501.44	87.60	88.11	-131.87	-10,698.30	-662.33	1,298.74	1,114.90	183.90	7.068		
18,700.00	7,634.00	19,420.39	8,501.41	88.32	88.82	-131.85	-10,798.30	-662.95	1,300.14	1,114.77	185.38	7.014		
18,800.00	7,634.00	19,520.38	8,501.38	89.04	89.54	-131.83	-10,898.29	-663.57	1,300.59	1,113.73	186.86	6.960		
18,900.00	7,634.00	19,620.38	8,501.36	89.76	90.26	-131.81	-10,998.29	-664.19	1,301.04	1,112.69	188.35	6.908		
19,000.00	7,634.00	19,720.38	8,501.33	90.48	90.98	-131.79	-11,098.29	-664.81	1,301.49	1,111.65	189.84	6.856		
19,100.00	7,634.00	19,820.38	8,501.30	91.20	91.70	-131.77	-11,198.28	-665.43	1,301.93	1,110.61	191.32	6.805		
19,200.00	7,634.00	19,920.38	8,501.28	91.92	92.42	-131.75	-11,298.28	-666.05	1,302.38	1,109.57	192.81	6.755		
19,300.00	7,634.00	20,020.37	8,501.25	92.64	93.15	-131.73	-11,398.27	-666.67	1,302.83	1,108.53	194.30	6.705		
19,400.00	7,634.00	20,120.37	8,501.22	93.37	93.87	-131.71	-11,498.27	-667.29	1,303.28	1,107.49	195.79	6.656		
19,500.00	7,634.00	20,220.37	8,501.20	94.09	94.59	-131.70	-11,598.27	-667.91	1,303.73	1,106.44	197.28	6.608		
19,600.00	7,634.00	20,320.37	8,501.17	94.81	95.32	-131.68	-11,698.26	-668.53	1,304.18	1,105.40	198.78	6.561		
19,700.00	7,634.00	20,420.37	8,501.14	95.54	96.04	-131.66	-11,798.26	-669.15	1,304.62	1,104.36	200.27	6.514		
19,800.00	7,634.00	20,520.36	8,501.12	96.26	96.77	-131.64	-11,898.26	-669.77	1,305.07	1,103.31	201.76	6.468		
19,900.00	7,634.00	20,620.36	8,501.09	96.99	97.49	-131.62	-11,998.25	-670.39	1,305.52	1,102.27	203.26	6.423		
20,000.00	7,634.00	20,720.36	8,501.06	97.71	98.22	-131.60	-12,098.25	-671.01	1,305.97	1,101.22	204.75	6.378		
20,100.00	7,634.00	20,820.36	8,501.04	98.44	98.95	-131.58	-12,198.24	-671.63	1,306.42	1,100.17	206.25	6.334		
20,200.00	7,634.00	20,920.36	8,501.01	99.17	99.67	-131.56	-12,298.24	-672.25	1,306.87	1,099.13	207.74	6.291		
20,300.00	7,634.00	21,020.35	8,500.98	99.89	100.40	-131.54	-12,398.24	-672.87	1,307.32	1,098.08	209.24	6.248		
20,400.00	7,634.00	21,120.35	8,500.96	100.62	101.13	-131.52	-12,498.23	-673.49	1,307.77	1,097.03	210.74	6.206		
20,500.00	7,634.00	21,220.35	8,500.93	101.35	101.86	-131.50	-12,598.23	-674.11	1,308.22	1,095.98	212.24	6.164		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 15H - OH - Plan 1

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:
Reference	Vertical	Measured	Vertical	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)									0.00 usft
20,600.00	7,634.00	21,320.35	8,500.90	102.08	102.59	-131.49	-12,698.22	-674.73	1,308.67	1,094.94	213.73	6.123		
20,700.00	7,634.00	21,420.35	8,500.88	102.81	103.32	-131.47	-12,798.22	-675.35	1,309.12	1,093.89	215.23	6.082		
20,800.00	7,634.00	21,520.34	8,500.85	103.54	104.05	-131.45	-12,898.22	-675.97	1,309.57	1,092.84	216.73	6.042		
20,900.00	7,634.00	21,620.34	8,500.82	104.27	104.78	-131.43	-12,998.21	-676.59	1,310.02	1,091.79	218.23	6.003		
21,000.00	7,634.00	21,720.34	8,500.80	105.00	105.51	-131.41	-13,098.21	-677.21	1,310.47	1,090.74	219.73	5.964		
21,100.00	7,634.00	21,820.34	8,500.77	105.74	106.25	-131.39	-13,198.20	-677.83	1,310.92	1,089.69	221.24	5.925		
21,200.00	7,634.00	21,920.34	8,500.74	106.47	106.98	-131.37	-13,298.20	-678.45	1,311.37	1,088.64	222.74	5.888		
21,300.00	7,634.00	22,020.33	8,500.72	107.20	107.71	-131.35	-13,398.20	-679.07	1,311.83	1,087.59	224.24	5.850		
21,400.00	7,634.00	22,120.33	8,500.69	107.93	108.44	-131.33	-13,498.19	-679.69	1,312.28	1,086.53	225.74	5.813		
21,500.00	7,634.00	22,220.33	8,500.66	108.67	109.18	-131.32	-13,598.19	-680.31	1,312.73	1,085.48	227.25	5.777		
21,600.00	7,634.00	22,320.33	8,500.64	109.40	109.91	-131.30	-13,698.19	-680.93	1,313.18	1,084.43	228.75	5.741		
21,700.00	7,634.00	22,420.33	8,500.61	110.14	110.65	-131.28	-13,798.18	-681.55	1,313.63	1,083.38	230.25	5.705		
21,800.00	7,634.00	22,520.33	8,500.58	110.87	111.38	-131.26	-13,898.18	-682.17	1,314.08	1,082.32	231.76	5.670		
21,900.00	7,634.00	22,620.32	8,500.56	111.61	112.12	-131.24	-13,998.17	-682.79	1,314.54	1,081.27	233.26	5.635		
22,000.00	7,634.00	22,720.32	8,500.53	112.34	112.85	-131.22	-14,098.17	-683.41	1,314.99	1,080.22	234.77	5.601		
22,100.00	7,634.00	22,820.32	8,500.50	113.08	113.59	-131.20	-14,198.17	-684.03	1,315.44	1,079.16	236.28	5.567		
22,200.00	7,634.00	22,920.32	8,500.48	113.81	114.33	-131.18	-14,298.16	-684.65	1,315.89	1,078.11	237.78	5.534		
22,300.00	7,634.00	23,020.32	8,500.45	114.55	115.06	-131.16	-14,398.16	-685.27	1,316.34	1,077.06	239.29	5.501		
22,400.00	7,634.00	23,120.31	8,500.42	115.29	115.80	-131.15	-14,498.15	-685.89	1,316.80	1,076.00	240.80	5.469		
22,500.00	7,634.00	23,220.31	8,500.40	116.02	116.54	-131.13	-14,598.15	-686.51	1,317.25	1,074.95	242.30	5.436		
22,600.00	7,634.00	23,320.31	8,500.37	116.76	117.28	-131.11	-14,698.15	-687.13	1,317.70	1,073.89	243.81	5.405		
22,700.00	7,634.00	23,420.31	8,500.34	117.50	118.02	-131.09	-14,798.14	-687.75	1,318.16	1,072.84	245.32	5.373		
22,800.00	7,634.00	23,520.31	8,500.31	118.24	118.75	-131.07	-14,898.14	-688.37	1,318.61	1,071.78	246.83	5.342		
22,900.00	7,634.00	23,620.30	8,500.29	118.98	119.49	-131.05	-14,998.13	-688.99	1,319.06	1,070.73	248.34	5.312		
23,000.00	7,634.00	23,720.30	8,500.26	119.72	120.23	-131.03	-15,098.13	-689.61	1,319.52	1,069.67	249.85	5.281		
23,100.00	7,634.00	23,820.30	8,500.23	120.46	120.97	-131.02	-15,198.13	-690.23	1,319.97	1,068.61	251.36	5.251		
23,200.00	7,634.00	23,920.30	8,500.21	121.19	121.71	-131.00	-15,298.12	-690.85	1,320.42	1,067.56	252.87	5.222		
23,235.54	7,634.00	23,950.55	8,500.20	121.46	121.94	-130.99	-15,328.37	-691.04	1,320.60	1,067.28	253.31	5.213	SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 16H - OH - Plan 1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.10	0.00	0.00	89.37	0.22	19.99	19.99						
100.00	100.00	99.90	100.00	0.28	0.28	89.37	0.22	19.99	19.99	19.44	0.55	36.231			
200.00	200.00	199.90	200.00	0.63	0.63	89.37	0.22	19.99	19.99	18.72	1.27	15.758			
300.00	300.00	299.90	300.00	0.99	0.99	89.37	0.22	19.99	19.99	18.01	1.99	10.068			
400.00	400.00	399.90	400.00	1.35	1.35	89.37	0.22	19.99	19.99	17.29	2.70	7.397			
500.00	500.00	499.90	500.00	1.71	1.71	89.37	0.22	19.99	19.99	16.57	3.42	5.846			
600.00	600.00	599.90	600.00	2.07	2.07	89.37	0.22	19.99	19.99	15.85	4.14	4.833			
700.00	700.00	699.90	700.00	2.43	2.43	89.37	0.22	19.99	19.99	15.14	4.85	4.119			
800.00	800.00	799.90	800.00	2.79	2.78	89.37	0.22	19.99	19.99	14.42	5.57	3.589			
900.00	900.00	899.90	900.00	3.14	3.14	89.37	0.22	19.99	19.99	13.70	6.29	3.180			
1,000.00	1,000.00	999.90	1,000.00	3.50	3.50	89.37	0.22	19.99	19.99	12.99	7.00	2.854			
1,100.00	1,100.00	1,099.90	1,100.00	3.86	3.86	89.37	0.22	19.99	19.99	12.27	7.72	2.589			
1,200.00	1,200.00	1,199.90	1,200.00	4.22	4.22	89.37	0.22	19.99	19.99	11.55	8.44	2.369			
1,300.00	1,300.00	1,299.90	1,300.00	4.58	4.58	89.37	0.22	19.99	19.99	10.84	9.16	2.184			
1,400.00	1,400.00	1,399.90	1,400.00	4.94	4.94	89.37	0.22	19.99	19.99	10.12	9.87	2.025	CC, ES, SF		
1,500.00	1,499.98	1,499.88	1,499.98	5.29	5.29	167.72	0.22	19.99	21.69	11.11	10.58	2.050			
1,600.00	1,599.84	1,599.74	1,599.84	5.64	5.65	170.08	0.22	19.99	26.83	15.54	11.29	2.377			
1,700.00	1,699.45	1,699.35	1,699.45	5.98	6.01	172.48	0.22	19.99	35.45	23.46	11.99	2.956			
1,800.00	1,798.70	1,798.60	1,798.70	6.34	6.37	174.38	0.22	19.99	47.56	34.86	12.70	3.746			
1,900.00	1,897.47	1,897.37	1,897.47	6.69	6.72	175.75	0.22	19.99	63.14	49.74	13.40	4.712			
2,000.00	1,995.62	1,995.52	1,995.62	7.05	7.07	176.71	0.22	19.99	82.18	68.08	14.10	5.828			
2,100.00	2,093.06	2,095.85	2,095.94	7.41	7.43	176.92	1.32	18.82	103.35	88.54	14.81	6.979			
2,200.00	2,189.81	2,196.93	2,196.88	7.77	7.79	176.21	4.86	15.06	124.45	108.94	15.51	8.025			
2,300.00	2,286.50	2,299.07	2,298.63	8.14	8.15	174.89	10.91	8.63	142.99	126.78	16.20	8.825			
2,400.00	2,383.18	2,402.09	2,400.87	8.51	8.51	173.08	19.53	-0.52	158.75	141.85	16.90	9.395			
2,500.00	2,479.87	2,505.73	2,503.21	8.88	8.88	170.81	30.74	-12.43	171.86	154.27	17.59	9.769			
2,600.00	2,576.55	2,606.29	2,602.04	9.25	9.24	168.36	43.48	-25.96	183.14	164.83	18.31	10.003			
2,700.00	2,673.24	2,705.38	2,699.39	9.63	9.59	166.20	56.14	-39.41	194.58	175.54	19.04	10.222			
2,800.00	2,769.92	2,804.47	2,796.74	10.01	9.95	164.28	68.81	-52.87	206.27	186.50	19.77	10.436			
2,900.00	2,866.61	2,903.56	2,894.09	10.39	10.31	162.56	81.48	-66.32	218.16	197.66	20.50	10.643			
3,000.00	2,963.30	3,002.65	2,991.44	10.77	10.66	161.03	94.15	-79.78	230.22	208.99	21.23	10.843			
3,100.00	3,059.98	3,101.74	3,088.79	11.15	11.02	159.64	106.81	-93.24	242.43	220.47	21.97	11.036			
3,200.00	3,156.67	3,200.83	3,186.14	11.54	11.38	158.39	119.48	-106.69	254.77	232.07	22.71	11.220			
3,300.00	3,253.35	3,299.92	3,283.50	11.92	11.74	157.26	132.15	-120.15	267.22	243.77	23.45	11.397			
3,400.00	3,350.04	3,399.01	3,380.85	12.31	12.11	156.23	144.82	-133.60	279.76	255.57	24.19	11.566			
3,500.00	3,446.73	3,498.10	3,478.20	12.70	12.47	155.28	157.48	-147.06	292.38	267.45	24.93	11.728			
3,600.00	3,543.41	3,597.19	3,575.55	13.09	12.83	154.41	170.15	-160.51	305.08	279.41	25.67	11.883			
3,700.00	3,640.10	3,696.28	3,672.90	13.48	13.20	153.62	182.82	-173.97	317.84	291.42	26.42	12.031			
3,800.00	3,736.78	3,795.37	3,770.25	13.86	13.56	152.88	195.49	-187.42	330.65	303.49	27.17	12.172			
3,900.00	3,833.47	3,894.46	3,867.60	14.26	13.93	152.20	208.16	-200.88	343.52	315.60	27.91	12.307			
4,000.00	3,930.15	3,993.55	3,964.95	14.65	14.29	151.57	220.82	-214.34	356.43	327.77	28.66	12.436			
4,100.00	4,026.84	4,092.64	4,062.30	15.04	14.66	150.98	233.49	-227.79	369.37	339.96	29.41	12.560			
4,200.00	4,123.53	4,191.73	4,159.65	15.43	15.03	150.43	246.16	-241.25	382.36	352.20	30.16	12.678			
4,300.00	4,220.21	4,290.81	4,257.00	15.82	15.39	149.92	258.83	-254.70	395.37	364.46	30.91	12.791			
4,400.00	4,316.90	4,389.90	4,354.36	16.21	15.76	149.44	271.49	-268.16	408.42	376.76	31.66	12.900			
4,500.00	4,413.58	4,488.99	4,451.71	16.61	16.13	148.99	284.16	-281.61	421.49	389.08	32.41	13.004			
4,600.00	4,510.27	4,582.33	4,543.60	17.00	16.47	148.72	295.36	-293.51	435.15	402.01	33.14	13.131			
4,700.00	4,606.96	4,674.33	4,634.64	17.39	16.81	148.80	304.41	-303.12	450.32	416.47	33.85	13.304			
4,800.00	4,703.64	4,765.77	4,725.50	17.79	17.14	149.20	311.41	-310.56	467.03	432.49	34.55	13.519			
4,900.00	4,800.33	4,856.46	4,815.90	18.18	17.47	149.86	316.39	-315.84	485.32	450.09	35.23	13.777			
5,000.00	4,897.01	4,946.24	4,905.58	18.58	17.79	150.76	319.38	-319.02	505.26	469.36	35.89	14.077			
5,100.00	4,993.70	5,034.95	4,994.27	18.97	18.10	151.85	320.45	-320.16	526.93	490.39	36.54	14.422			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**Total Directional
Anticollision Report**



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 16H - OH - Plan 1

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside Tooflance (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Reference	Offset	Reference	Offset	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)								
5,200.00	5,090.38	5,131.07	5,090.38	19.37	18.44	153.09	320.45	-320.16	549.72	512.48	37.25	14.759	
5,300.00	5,187.07	5,227.76	5,187.07	19.76	18.78	154.24	320.45	-320.16	572.75	534.79	37.96	15.087	
5,400.00	5,283.76	5,324.44	5,283.76	20.16	19.12	155.30	320.45	-320.16	595.99	557.31	38.68	15.408	
5,500.00	5,380.44	5,421.13	5,380.44	20.55	19.46	156.28	320.45	-320.16	619.40	580.00	39.40	15.721	
5,600.00	5,477.13	5,517.81	5,477.13	20.95	19.80	157.19	320.45	-320.16	642.98	602.86	40.12	16.026	
5,700.00	5,573.81	5,614.50	5,573.81	21.35	20.14	158.04	320.45	-320.16	666.70	625.86	40.84	16.324	
5,800.00	5,670.50	5,711.19	5,670.50	21.74	20.48	158.83	320.45	-320.16	690.55	648.99	41.56	16.615	
5,900.00	5,767.19	5,807.87	5,767.19	22.14	20.82	159.56	320.45	-320.16	714.52	672.23	42.29	16.898	
6,000.00	5,863.87	5,904.56	5,863.87	22.54	21.16	160.25	320.45	-320.16	738.59	695.58	43.01	17.173	
6,100.00	5,960.56	6,001.24	5,960.56	22.93	21.50	160.90	320.45	-320.16	762.75	719.02	43.73	17.441	
6,200.00	6,057.24	6,097.93	6,057.24	23.33	21.84	161.50	320.45	-320.16	787.00	742.55	44.46	17.703	
6,300.00	6,153.93	6,194.61	6,153.93	23.73	22.18	162.07	320.45	-320.16	811.33	766.15	45.18	17.957	
6,400.00	6,250.61	6,291.30	6,250.61	24.13	22.53	162.61	320.45	-320.16	835.74	789.83	45.91	18.205	
6,500.00	6,347.30	6,387.99	6,347.30	24.52	22.87	163.12	320.45	-320.16	860.20	813.57	46.63	18.446	
6,600.00	6,443.99	6,484.67	6,443.99	24.92	23.21	163.60	320.45	-320.16	884.73	837.37	47.36	18.680	
6,700.00	6,540.67	6,581.36	6,540.67	25.32	23.55	164.05	320.45	-320.16	909.32	861.23	48.09	18.909	
6,800.00	6,637.36	6,678.04	6,637.36	25.72	23.89	164.48	320.45	-320.16	933.95	885.13	48.82	19.132	
6,900.00	6,734.04	6,778.39	6,734.04	26.11	24.23	165.08	317.56	-320.18	958.53	908.97	49.56	19.341	
7,000.00	6,830.73	6,876.60	6,830.00	26.51	24.53	166.55	299.41	-320.29	982.88	932.64	50.24	19.562	
7,100.00	6,927.42	6,964.62	6,916.65	26.91	24.77	168.60	269.37	-320.48	1,008.09	957.28	50.81	19.842	
7,200.00	7,024.10	7,040.53	6,983.51	27.31	24.95	170.87	233.56	-320.70	1,035.53	984.32	51.21	20.222	
7,300.00	7,120.78	7,106.24	7,037.15	27.70	25.10	-161.42	195.65	-320.94	1,066.38	1,014.94	51.43	20.733	
7,400.00	7,216.15	7,169.20	7,084.14	28.08	25.21	-128.60	153.80	-321.20	1,100.06	1,048.54	51.52	21.350	
7,500.00	7,307.37	7,230.74	7,125.36	28.42	25.32	-109.23	108.16	-321.49	1,134.79	1,083.29	51.50	22.035	
7,600.00	7,391.67	7,291.36	7,160.96	28.72	25.41	-97.01	59.12	-321.80	1,168.92	1,117.53	51.39	22.747	
7,700.00	7,466.49	7,350.00	7,190.28	28.97	25.49	-88.59	8.37	-322.11	1,201.00	1,149.79	51.21	23.452	
7,800.00	7,529.56	7,411.16	7,215.17	29.18	25.56	-82.50	-47.46	-322.46	1,229.84	1,178.81	51.04	24.098	
7,900.00	7,578.96	7,470.78	7,233.58	29.35	25.63	-78.13	-104.14	-322.82	1,254.45	1,203.58	50.86	24.663	
8,000.00	7,613.19	7,530.40	7,245.99	29.50	25.69	-75.14	-162.42	-323.18	1,274.04	1,223.31	50.74	25.111	
8,100.00	7,631.21	7,600.00	7,252.74	29.65	25.74	-73.34	-231.66	-323.62	1,288.12	1,237.43	50.69	25.411	
8,200.00	7,634.00	7,672.48	7,253.57	29.80	25.80	-72.89	-304.12	-324.07	1,296.45	1,245.73	50.72	25.559	
8,300.00	7,634.00	7,772.17	7,254.39	29.95	25.89	-73.03	-403.81	-324.69	1,303.63	1,252.78	50.86	25.633	
8,400.00	7,634.00	7,871.89	7,255.22	30.12	26.01	-73.17	-503.52	-325.32	1,310.52	1,259.49	51.03	25.679	
8,500.00	7,634.00	7,971.78	7,256.05	30.30	26.15	-73.29	-603.41	-325.94	1,314.63	1,263.38	51.24	25.654	
8,600.00	7,634.00	8,071.76	7,256.87	30.49	26.32	-73.34	-703.39	-326.57	1,315.39	1,263.91	51.48	25.549	
8,700.00	7,634.00	8,171.75	7,257.70	30.68	26.50	-73.36	-803.38	-327.19	1,314.25	1,262.49	51.76	25.392	
8,800.00	7,634.00	8,271.75	7,258.53	30.89	26.70	-73.38	-903.36	-327.82	1,313.09	1,261.02	52.08	25.215	
8,900.00	7,634.00	8,371.74	7,259.36	31.11	26.93	-73.41	-1,003.35	-328.44	1,311.94	1,259.50	52.44	25.019	
9,000.00	7,634.00	8,471.73	7,260.19	31.34	27.17	-73.43	-1,103.34	-329.07	1,310.79	1,257.95	52.84	24.806	
9,100.00	7,634.00	8,571.72	7,261.02	31.59	27.43	-73.45	-1,203.32	-329.70	1,309.63	1,256.35	53.29	24.578	
9,200.00	7,634.00	8,671.71	7,261.85	31.85	27.71	-73.47	-1,303.31	-330.32	1,308.48	1,254.71	53.77	24.334	
9,300.00	7,634.00	8,771.71	7,262.68	32.13	28.01	-73.50	-1,403.29	-330.95	1,307.33	1,253.03	54.29	24.078	
9,400.00	7,634.00	8,871.70	7,263.51	32.41	28.32	-73.52	-1,503.28	-331.57	1,306.17	1,251.32	54.86	23.811	
9,500.00	7,634.00	8,971.69	7,264.33	32.72	28.66	-73.54	-1,603.27	-332.20	1,305.02	1,249.56	55.46	23.533	
9,600.00	7,634.00	9,071.68	7,265.16	33.03	29.00	-73.57	-1,703.25	-332.82	1,303.87	1,247.78	56.09	23.246	
9,700.00	7,634.00	9,171.67	7,265.99	33.36	29.37	-73.59	-1,803.24	-333.45	1,302.71	1,245.95	56.76	22.952	
9,800.00	7,634.00	9,271.67	7,266.82	33.70	29.75	-73.61	-1,903.23	-334.08	1,301.56	1,244.10	57.46	22.651	
9,900.00	7,634.00	9,371.66	7,267.65	34.05	30.14	-73.64	-2,003.21	-334.70	1,300.41	1,242.21	58.20	22.346	
10,000.00	7,634.00	9,471.65	7,268.48	34.42	30.55	-73.66	-2,103.20	-335.33	1,299.26	1,240.30	58.96	22.036	
10,100.00	7,634.00	9,571.64	7,269.31	34.80	30.97	-73.68	-2,203.19	-335.95	1,298.11	1,238.35	59.76	21.724	
10,200.00	7,634.00	9,671.63	7,270.14	35.19	31.40	-73.71	-2,303.17	-336.58	1,296.95	1,236.38	60.58	21.409	
10,300.00	7,634.00	9,771.63	7,270.96	35.59	31.85	-73.73	-2,403.16	-337.20	1,295.80	1,234.37	61.43	21.094	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 16H - OH - Plan 1, Offset Site Error: 0.00 usft, Offset Well Error: 0.00 usft

Table with columns: Measured Depth (usft), Vertical Depth (usft), Measured Offset Depth (usft), Vertical Offset Depth (usft), Semi Major Axis Reference (usft), Semi Major Axis Offset (usft), Highside Toolface (°), Offset Wellbore Centre (+N/-S usft, +E/-W usft), Distance (Between Centres usft, Between Ellipses usft), Minimum Separation (usft), Separation Factor, Warning. Rows list depth intervals from 10,400.00 to 15,300.00 usft.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 16H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
15,400.00	7,634.00	14,876.02	7,313.16	65.21	63.25	-75.36	-7,502.58	-369.16	1,269.03	1,145.15	123.88	10.244				
15,500.00	7,634.00	14,976.01	7,313.99	65.88	63.95	-75.40	-7,602.57	-369.78	1,269.16	1,143.88	125.28	10.131				
15,600.00	7,634.00	15,076.01	7,314.82	66.56	64.65	-75.44	-7,702.56	-370.41	1,269.31	1,142.63	126.69	10.019				
15,700.00	7,634.00	15,176.00	7,315.64	67.24	65.35	-75.48	-7,802.55	-371.03	1,269.47	1,141.37	128.10	9.910				
15,800.00	7,634.00	15,276.00	7,316.47	67.93	66.06	-75.52	-7,902.54	-371.66	1,269.62	1,140.11	129.51	9.803				
15,900.00	7,634.00	15,375.99	7,317.30	68.61	66.76	-75.56	-8,002.53	-372.28	1,269.78	1,138.84	130.93	9.698				
16,000.00	7,634.00	15,475.99	7,318.13	69.30	67.47	-75.60	-8,102.52	-372.91	1,269.93	1,137.58	132.35	9.595				
16,100.00	7,634.00	15,575.99	7,318.96	69.99	68.18	-75.64	-8,202.52	-373.53	1,270.09	1,136.31	133.77	9.494				
16,200.00	7,634.00	15,675.98	7,319.79	70.68	68.89	-75.68	-8,302.51	-374.16	1,270.24	1,135.04	135.20	9.395				
16,300.00	7,634.00	15,775.98	7,320.62	71.37	69.60	-75.72	-8,402.50	-374.78	1,270.40	1,133.77	136.62	9.298				
16,400.00	7,634.00	15,875.97	7,321.45	72.06	70.31	-75.76	-8,502.49	-375.41	1,270.56	1,132.50	138.05	9.203				
16,500.00	7,634.00	15,975.97	7,322.28	72.76	71.02	-75.80	-8,602.48	-376.03	1,270.71	1,131.23	139.49	9.110				
16,600.00	7,634.00	16,075.97	7,323.11	73.45	71.73	-75.84	-8,702.47	-376.66	1,270.87	1,129.95	140.92	9.018				
16,700.00	7,634.00	16,175.96	7,323.94	74.15	72.45	-75.88	-8,802.46	-377.28	1,271.03	1,128.68	142.36	8.929				
16,800.00	7,634.00	16,275.96	7,324.77	74.85	73.16	-75.92	-8,902.45	-377.91	1,271.19	1,127.40	143.79	8.840				
16,900.00	7,634.00	16,375.95	7,325.60	75.55	73.88	-75.96	-9,002.44	-378.54	1,271.35	1,126.12	145.23	8.754				
17,000.00	7,634.00	16,475.95	7,326.43	76.25	74.60	-76.00	-9,102.43	-379.16	1,271.51	1,124.84	146.68	8.669				
17,100.00	7,634.00	16,575.94	7,327.26	76.95	75.31	-76.04	-9,202.42	-379.79	1,271.68	1,123.56	148.12	8.585				
17,200.00	7,634.00	16,675.94	7,328.09	77.65	76.03	-76.08	-9,302.41	-380.41	1,271.84	1,122.27	149.57	8.504				
17,300.00	7,634.00	16,775.94	7,328.92	78.36	76.75	-76.12	-9,402.40	-381.04	1,272.00	1,120.99	151.01	8.423				
17,400.00	7,634.00	16,875.93	7,329.75	79.06	77.47	-76.16	-9,502.39	-381.66	1,272.17	1,119.70	152.46	8.344				
17,500.00	7,634.00	16,975.93	7,330.58	79.77	78.20	-76.20	-9,602.38	-382.29	1,272.33	1,118.42	153.91	8.267				
17,600.00	7,634.00	17,075.92	7,331.41	80.48	78.92	-76.24	-9,702.37	-382.91	1,272.50	1,117.13	155.37	8.190				
17,700.00	7,634.00	17,175.92	7,332.24	81.19	79.64	-76.28	-9,802.36	-383.54	1,272.66	1,115.84	156.82	8.115				
17,800.00	7,634.00	17,275.92	7,333.07	81.90	80.37	-76.32	-9,902.35	-384.16	1,272.83	1,114.55	158.28	8.042				
17,900.00	7,634.00	17,375.91	7,333.90	82.61	81.09	-76.36	-10,002.34	-384.79	1,272.99	1,113.26	159.73	7.970				
18,000.00	7,634.00	17,475.91	7,334.73	83.32	81.82	-76.40	-10,102.33	-385.41	1,273.16	1,111.97	161.19	7.898				
18,100.00	7,634.00	17,575.90	7,335.56	84.03	82.54	-76.45	-10,202.32	-386.04	1,273.32	1,110.67	162.65	7.829				
18,200.00	7,634.00	17,675.90	7,336.39	84.74	83.27	-76.49	-10,302.31	-386.66	1,273.48	1,109.37	164.11	7.762				
18,300.00	7,634.00	17,775.89	7,337.22	85.46	84.00	-76.53	-10,402.30	-387.29	1,273.64	1,108.06	165.58	7.696				
18,400.00	7,634.00	17,875.89	7,338.05	86.17	84.72	-76.57	-10,502.29	-387.91	1,273.81	1,106.75	167.04	7.631				
18,500.00	7,634.00	17,975.88	7,338.88	86.89	85.45	-76.62	-10,602.28	-388.54	1,274.06	1,105.44	168.51	7.567				
18,600.00	7,634.00	18,075.88	7,339.71	87.60	86.18	-76.66	-10,702.27	-389.16	1,274.31	1,104.13	169.97	7.504				
18,700.00	7,634.00	18,175.87	7,340.54	88.32	86.91	-76.70	-10,802.26	-389.79	1,274.56	1,102.82	171.44	7.442				
18,800.00	7,634.00	18,275.87	7,341.37	89.04	87.64	-76.75	-10,902.25	-390.41	1,274.81	1,101.51	172.91	7.381				
18,900.00	7,634.00	18,375.86	7,342.20	89.76	88.38	-76.79	-11,002.24	-391.04	1,275.06	1,100.20	174.38	7.321				
19,000.00	7,634.00	18,475.85	7,343.03	90.48	89.11	-76.83	-11,102.23	-391.66	1,275.31	1,098.89	175.85	7.262				
19,100.00	7,634.00	18,575.85	7,343.86	91.20	89.84	-76.87	-11,202.22	-392.29	1,275.56	1,097.58	177.33	7.204				
19,200.00	7,634.00	18,675.84	7,344.69	91.92	90.57	-76.92	-11,302.21	-392.91	1,275.81	1,096.27	178.80	7.147				
19,300.00	7,634.00	18,775.84	7,345.52	92.64	91.31	-76.96	-11,402.20	-393.54	1,276.06	1,094.96	180.27	7.091				
19,400.00	7,634.00	18,875.83	7,346.35	93.37	92.04	-77.00	-11,502.19	-394.16	1,276.31	1,093.65	181.75	7.036				
19,500.00	7,634.00	18,975.83	7,347.18	94.09	92.77	-77.04	-11,602.18	-394.79	1,276.56	1,092.34	183.23	6.981				
19,600.00	7,634.00	19,075.82	7,348.01	94.81	93.51	-77.09	-11,702.17	-395.42	1,276.81	1,091.03	184.70	6.928				
19,700.00	7,634.00	19,175.82	7,348.84	95.54	94.24	-77.13	-11,802.16	-396.04	1,277.06	1,089.72	186.18	6.875				
19,800.00	7,634.00	19,275.81	7,349.67	96.26	94.98	-77.17	-11,902.15	-396.67	1,277.31	1,088.41	187.66	6.823				
19,900.00	7,634.00	19,375.81	7,350.50	96.99	95.72	-77.21	-12,002.14	-397.29	1,277.56	1,087.10	189.14	6.772				
20,000.00	7,634.00	19,475.80	7,351.33	97.71	96.45	-77.25	-12,102.13	-397.92	1,277.81	1,085.79	190.62	6.722				
20,100.00	7,634.00	19,575.80	7,352.16	98.44	97.19	-77.30	-12,202.12	-398.54	1,278.06	1,084.48	192.11	6.672				
20,200.00	7,634.00	19,675.79	7,352.99	99.17	97.93	-77.34	-12,302.11	-399.17	1,278.31	1,083.17	193.59	6.623				
20,300.00	7,634.00	19,775.79	7,353.81	99.89	98.67	-77.38	-12,402.10	-399.79	1,278.56	1,081.86	195.07	6.575				
20,400.00	7,634.00	19,875.78	7,354.64	100.62	99.40	-77.42	-12,502.09	-400.42	1,278.81	1,080.55	196.56	6.527				
20,500.00	7,634.00	19,975.77	7,355.47	101.35	100.14	-77.47	-12,602.07	-401.04	1,279.06	1,079.24	198.04	6.480				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 16H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,600.00	7,634.00	20,075.77	7,356.30	102.08	100.88	-77.51	-12,702.05	-401.67	1,283.83	1,084.30	199.53	6.434	
20,700.00	7,634.00	20,175.76	7,357.13	102.81	101.62	-77.55	-12,802.04	-402.29	1,284.26	1,083.24	201.02	6.389	
20,800.00	7,634.00	20,275.76	7,357.96	103.54	102.36	-77.59	-12,902.03	-402.92	1,284.69	1,082.18	202.50	6.344	
20,900.00	7,634.00	20,375.75	7,358.79	104.27	103.10	-77.63	-13,002.02	-403.54	1,285.11	1,081.12	203.99	6.300	
21,000.00	7,634.00	20,475.75	7,359.62	105.00	103.84	-77.68	-13,102.01	-404.17	1,285.54	1,080.06	205.48	6.256	
21,100.00	7,634.00	20,575.74	7,360.45	105.74	104.58	-77.72	-13,202.00	-404.79	1,285.97	1,079.00	206.97	6.213	
21,200.00	7,634.00	20,675.74	7,361.28	106.47	105.32	-77.76	-13,301.99	-405.42	1,286.40	1,077.94	208.46	6.171	
21,300.00	7,634.00	20,775.73	7,362.11	107.20	106.07	-77.80	-13,401.98	-406.04	1,286.83	1,076.88	209.95	6.129	
21,400.00	7,634.00	20,875.73	7,362.94	107.93	106.81	-77.84	-13,501.97	-406.67	1,287.26	1,075.81	211.44	6.088	
21,500.00	7,634.00	20,975.72	7,363.77	108.67	107.55	-77.89	-13,601.96	-407.29	1,287.69	1,074.75	212.94	6.047	
21,600.00	7,634.00	21,075.72	7,364.60	109.40	108.29	-77.93	-13,701.95	-407.92	1,288.12	1,073.69	214.43	6.007	
21,700.00	7,634.00	21,175.71	7,365.43	110.14	109.04	-77.97	-13,801.94	-408.54	1,288.55	1,072.63	215.92	5.968	
21,800.00	7,634.00	21,275.70	7,366.26	110.87	109.78	-78.01	-13,901.93	-409.17	1,288.99	1,071.57	217.42	5.929	
21,900.00	7,634.00	21,375.70	7,367.09	111.61	110.52	-78.05	-14,001.92	-409.79	1,289.42	1,070.51	218.91	5.890	
22,000.00	7,634.00	21,475.69	7,367.92	112.34	111.27	-78.10	-14,101.90	-410.42	1,289.86	1,069.45	220.41	5.852	
22,100.00	7,634.00	21,575.69	7,368.75	113.08	112.01	-78.14	-14,201.89	-411.04	1,290.29	1,068.39	221.90	5.815	
22,200.00	7,634.00	21,675.68	7,369.58	113.81	112.75	-78.18	-14,301.88	-411.67	1,290.73	1,067.33	223.40	5.778	
22,300.00	7,634.00	21,775.68	7,370.41	114.55	113.50	-78.22	-14,401.87	-412.30	1,291.16	1,066.27	224.90	5.741	
22,400.00	7,634.00	21,875.67	7,371.24	115.29	114.24	-78.26	-14,501.86	-412.92	1,291.60	1,065.21	226.39	5.705	
22,500.00	7,634.00	21,975.67	7,372.07	116.02	114.99	-78.30	-14,601.85	-413.55	1,292.04	1,064.15	227.89	5.670	
22,600.00	7,634.00	22,075.66	7,372.90	116.76	115.73	-78.34	-14,701.84	-414.17	1,292.48	1,063.09	229.39	5.634	
22,700.00	7,634.00	22,175.66	7,373.73	117.50	116.48	-78.39	-14,801.83	-414.80	1,292.92	1,062.03	230.89	5.600	
22,800.00	7,634.00	22,275.65	7,374.56	118.24	117.23	-78.43	-14,901.82	-415.42	1,293.36	1,060.97	232.39	5.566	
22,900.00	7,634.00	22,375.65	7,375.39	118.98	117.97	-78.47	-15,001.81	-416.05	1,293.80	1,059.91	233.89	5.532	
23,000.00	7,634.00	22,475.64	7,376.22	119.72	118.72	-78.51	-15,101.80	-416.67	1,294.24	1,058.85	235.39	5.498	
23,100.00	7,634.00	22,575.64	7,377.05	120.46	119.46	-78.55	-15,201.79	-417.30	1,294.68	1,057.79	236.89	5.465	
23,200.00	7,634.00	22,675.63	7,377.88	121.19	120.21	-78.59	-15,301.78	-417.92	1,295.12	1,056.74	238.39	5.433	
23,235.54	7,634.00	22,702.53	7,378.10	121.46	120.41	-78.61	-15,328.67	-418.09	1,295.31	1,056.52	238.79	5.425	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 17H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.30	0.00	0.00	29.10	35.21	19.60	40.30				
100.00	100.00	99.70	100.00	0.28	0.28	29.10	35.21	19.60	40.30	39.75	0.55	73.107	
200.00	200.00	199.70	200.00	0.63	0.63	29.10	35.21	19.60	40.30	39.03	1.27	31.783	
300.00	300.00	299.70	300.00	0.99	0.99	29.10	35.21	19.60	40.30	38.31	1.98	20.303	
400.00	400.00	399.70	400.00	1.35	1.35	29.10	35.21	19.60	40.30	37.60	2.70	14.915	
500.00	500.00	499.70	500.00	1.71	1.71	29.10	35.21	19.60	40.30	36.88	3.42	11.787	
600.00	600.00	599.70	600.00	2.07	2.07	29.10	35.21	19.60	40.30	36.16	4.14	9.744	
700.00	700.00	699.70	700.00	2.43	2.43	29.10	35.21	19.60	40.30	35.45	4.85	8.304	
800.00	800.00	799.70	800.00	2.79	2.78	29.10	35.21	19.60	40.30	34.73	5.57	7.235	
900.00	900.00	899.70	900.00	3.14	3.14	29.10	35.21	19.60	40.30	34.01	6.29	6.410	
1,000.00	1,000.00	999.70	1,000.00	3.50	3.50	29.10	35.21	19.60	40.30	33.29	7.00	5.754	
1,100.00	1,100.00	1,099.70	1,100.00	3.86	3.86	29.10	35.21	19.60	40.30	32.58	7.72	5.220	
1,200.00	1,200.00	1,199.70	1,200.00	4.22	4.22	29.10	35.21	19.60	40.30	31.86	8.44	4.776	
1,300.00	1,300.00	1,299.70	1,300.00	4.58	4.58	29.10	35.21	19.60	40.30	31.14	9.15	4.402	
1,400.00	1,400.00	1,399.70	1,400.00	4.94	4.94	29.10	35.21	19.60	40.30	30.43	9.87	4.082	CC
1,500.00	1,499.98	1,499.68	1,499.98	5.29	5.29	108.74	35.21	19.60	40.82	30.24	10.58	3.858	ES
1,600.00	1,599.84	1,599.54	1,599.84	5.64	5.65	115.34	35.21	19.60	42.79	31.51	11.29	3.792	SF
1,700.00	1,699.45	1,699.15	1,699.45	5.98	6.01	124.85	35.21	19.60	47.19	35.20	11.99	3.936	
1,800.00	1,798.70	1,798.40	1,798.70	6.34	6.36	135.16	35.21	19.60	55.10	42.40	12.70	4.340	
1,900.00	1,897.47	1,897.17	1,897.47	6.69	6.72	144.43	35.21	19.60	67.14	53.74	13.40	5.011	
2,000.00	1,995.62	1,995.32	1,995.62	7.05	7.07	151.89	35.21	19.60	83.47	69.37	14.10	5.919	
2,100.00	2,093.06	2,094.08	2,094.36	7.41	7.42	156.83	36.51	18.77	103.33	88.53	14.80	6.980	
2,200.00	2,189.81	2,193.21	2,193.37	7.77	7.78	159.25	40.70	16.10	124.90	109.39	15.51	8.054	
2,300.00	2,286.50	2,292.95	2,292.74	8.14	8.13	159.80	47.82	11.56	145.38	129.17	16.21	8.969	
2,400.00	2,383.18	2,390.96	2,390.26	8.51	8.48	159.74	56.07	6.31	165.22	148.31	16.91	9.769	
2,500.00	2,479.87	2,488.97	2,487.78	8.88	8.83	159.69	64.31	1.06	185.07	167.45	17.62	10.503	
2,600.00	2,576.55	2,586.98	2,585.31	9.25	9.18	159.65	72.55	-4.19	204.92	186.59	18.33	11.179	
2,700.00	2,673.24	2,684.99	2,682.83	9.63	9.53	159.61	80.79	-9.44	224.76	205.72	19.04	11.802	
2,800.00	2,769.92	2,783.00	2,780.35	10.01	9.88	159.59	89.03	-14.69	244.61	224.85	19.76	12.379	
2,900.00	2,866.61	2,881.01	2,877.87	10.39	10.23	159.56	97.28	-19.94	264.46	243.98	20.48	12.914	
3,000.00	2,963.30	2,979.02	2,975.40	10.77	10.58	159.54	105.52	-25.19	284.31	263.11	21.20	13.412	
3,100.00	3,059.98	3,077.03	3,072.92	11.15	10.94	159.52	113.76	-30.44	304.15	282.23	21.92	13.875	
3,200.00	3,156.67	3,175.04	3,170.44	11.54	11.29	159.51	122.00	-35.69	324.00	301.36	22.64	14.308	
3,300.00	3,253.35	3,273.06	3,267.96	11.92	11.64	159.50	130.24	-40.95	343.85	320.48	23.37	14.714	
3,400.00	3,350.04	3,371.07	3,365.48	12.31	11.99	159.48	138.49	-46.20	363.70	339.60	24.10	15.094	
3,500.00	3,446.73	3,469.08	3,463.01	12.70	12.35	159.47	146.73	-51.45	383.54	358.72	24.82	15.451	
3,600.00	3,543.41	3,567.09	3,560.53	13.09	12.70	159.46	154.97	-56.70	403.39	377.84	25.55	15.787	
3,700.00	3,640.10	3,665.10	3,658.05	13.48	13.05	159.45	163.21	-61.95	423.24	396.96	26.28	16.104	
3,800.00	3,736.78	3,763.11	3,755.57	13.86	13.41	159.45	171.45	-67.20	443.08	416.07	27.01	16.403	
3,900.00	3,833.47	3,861.12	3,853.09	14.26	13.76	159.44	179.70	-72.45	462.93	435.19	27.74	16.686	
4,000.00	3,930.15	3,959.13	3,950.62	14.65	14.11	159.43	187.94	-77.70	482.78	454.30	28.48	16.954	
4,100.00	4,026.84	4,057.14	4,048.14	15.04	14.47	159.42	196.18	-82.95	502.63	473.42	29.21	17.208	
4,200.00	4,123.53	4,155.15	4,145.66	15.43	14.82	159.42	204.42	-88.20	522.47	492.53	29.94	17.449	
4,300.00	4,220.21	4,253.16	4,243.18	15.82	15.18	159.41	212.66	-93.45	542.32	511.64	30.68	17.678	
4,400.00	4,316.90	4,351.17	4,340.71	16.21	15.53	159.41	220.91	-98.70	562.17	530.76	31.41	17.896	
4,500.00	4,413.58	4,449.18	4,438.23	16.61	15.89	159.40	229.15	-103.96	582.02	549.87	32.15	18.104	
4,600.00	4,510.27	4,547.19	4,535.75	17.00	16.24	159.40	237.39	-109.21	601.87	568.98	32.88	18.302	
4,700.00	4,606.96	4,645.20	4,633.27	17.39	16.60	159.40	245.63	-114.46	621.71	588.09	33.62	18.492	
4,800.00	4,703.64	4,743.21	4,730.79	17.79	16.95	159.39	253.87	-119.71	641.56	607.20	34.36	18.673	
4,900.00	4,800.33	4,841.22	4,828.32	18.18	17.31	159.39	262.12	-124.96	661.41	626.31	35.10	18.846	
5,000.00	4,897.01	4,939.24	4,925.84	18.58	17.66	159.38	270.36	-130.21	681.26	645.42	35.83	19.011	
5,100.00	4,993.70	5,037.25	5,023.36	18.97	18.02	159.38	278.60	-135.46	701.10	664.53	36.57	19.170	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 17H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Reference		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
5,200.00	5,090.38	5,135.26	5,120.88	19.37	18.37	159.38	286.84	-140.71	720.95	683.64	37.31	19.323					
5,300.00	5,187.07	5,233.27	5,218.41	19.76	18.73	159.38	295.08	-145.96	740.80	702.75	38.05	19.469					
5,400.00	5,283.76	5,331.28	5,315.93	20.16	19.08	159.37	303.33	-151.21	760.65	721.86	38.79	19.609					
5,500.00	5,380.44	5,429.29	5,413.45	20.55	19.44	159.37	311.57	-156.46	780.49	740.96	39.53	19.744					
5,600.00	5,477.13	5,517.02	5,500.86	20.95	19.75	159.45	317.85	-160.47	800.96	760.76	40.20	19.922					
5,700.00	5,573.81	5,600.00	5,583.71	21.35	20.05	159.69	321.71	-162.92	822.72	781.88	40.84	20.146					
5,800.00	5,670.50	5,690.22	5,673.90	21.74	20.37	160.11	323.61	-164.13	845.75	804.23	41.52	20.370					
5,900.00	5,767.19	5,783.51	5,767.19	22.14	20.71	160.65	323.71	-164.20	869.83	827.61	42.22	20.603					
6,000.00	5,863.87	5,880.19	5,863.87	22.54	21.05	161.19	323.71	-164.20	894.04	851.10	42.95	20.818					
6,100.00	5,960.56	5,976.88	5,960.56	22.93	21.39	161.70	323.71	-164.20	918.33	874.65	43.67	21.027					
6,200.00	6,057.24	6,073.56	6,057.24	23.33	21.73	162.19	323.71	-164.20	942.68	898.28	44.40	21.230					
6,300.00	6,153.93	6,170.25	6,153.93	23.73	22.08	162.65	323.71	-164.20	967.09	921.96	45.13	21.428					
6,400.00	6,250.61	6,266.94	6,250.61	24.13	22.42	163.09	323.71	-164.20	991.56	945.70	45.86	21.621					
6,500.00	6,347.30	6,363.62	6,347.30	24.52	22.76	163.51	323.71	-164.20	1,016.08	969.49	46.59	21.809					
6,600.00	6,443.99	6,460.31	6,443.99	24.92	23.11	163.90	323.71	-164.20	1,040.65	993.33	47.32	21.992					
6,700.00	6,540.67	6,556.99	6,540.67	25.32	23.45	164.28	323.71	-164.20	1,065.26	1,017.21	48.05	22.170					
6,800.00	6,637.36	6,653.68	6,637.36	25.72	23.80	164.65	323.71	-164.20	1,089.92	1,041.14	48.78	22.343					
6,900.00	6,734.04	6,750.36	6,734.04	26.11	24.14	164.99	323.71	-164.20	1,114.61	1,065.10	49.51	22.512					
7,000.00	6,830.73	6,847.05	6,830.73	26.51	24.48	165.32	323.71	-164.20	1,139.35	1,089.10	50.24	22.677					
7,100.00	6,927.42	6,943.74	6,927.42	26.91	24.83	165.64	323.71	-164.20	1,164.11	1,113.14	50.97	22.838					
7,200.00	7,024.10	7,040.42	7,024.10	27.31	25.17	165.95	323.71	-164.20	1,188.91	1,137.21	51.71	22.994					
7,300.00	7,120.78	7,164.29	7,147.79	27.70	25.59	-168.69	319.36	-164.94	1,213.58	1,160.97	52.61	23.069					
7,400.00	7,216.15	7,319.52	7,297.36	28.08	26.04	-138.17	280.20	-171.64	1,235.46	1,181.88	53.59	23.056					
7,500.00	7,307.37	7,469.26	7,426.51	28.42	26.40	-120.73	206.33	-184.26	1,253.57	1,199.18	54.39	23.047					
7,600.00	7,391.67	7,610.05	7,526.41	28.72	26.67	-110.05	109.04	-200.89	1,267.77	1,212.72	55.06	23.027					
7,700.00	7,466.49	7,740.25	7,594.87	28.97	26.90	-102.79	0.20	-219.50	1,278.12	1,222.52	55.59	22.990					
7,800.00	7,529.56	7,858.07	7,634.02	29.18	27.06	-97.60	-109.12	-238.19	1,284.72	1,228.73	55.99	22.943					
7,900.00	7,578.96	7,961.24	7,654.89	29.35	27.19	-94.16	-208.68	-255.20	1,288.05	1,231.77	56.28	22.888					
8,000.00	7,613.19	8,064.23	7,666.59	29.50	27.30	-92.12	-309.51	-272.44	1,287.82	1,231.32	56.50	22.792					
8,100.00	7,631.21	8,159.29	7,669.29	29.65	27.41	-91.39	-403.16	-288.40	1,283.66	1,226.98	56.68	22.646					
8,200.00	7,634.00	8,228.22	7,669.24	29.80	27.49	-91.58	-471.29	-298.83	1,277.53	1,220.70	56.83	22.479					
8,300.00	7,634.00	8,300.00	7,669.19	29.95	27.58	-91.58	-542.49	-307.95	1,273.15	1,216.14	57.01	22.333					
8,400.00	7,634.00	8,366.60	7,669.15	30.12	27.67	-91.59	-608.73	-314.81	1,270.86	1,213.67	57.18	22.224					
8,500.00	7,634.00	8,435.87	7,669.10	30.30	27.78	-91.59	-677.78	-320.31	1,268.07	1,210.69	57.38	22.098					
8,600.00	7,634.00	8,500.00	7,669.06	30.49	27.89	-91.59	-741.81	-323.91	1,264.23	1,206.66	57.58	21.957					
8,700.00	7,634.00	8,574.56	7,669.01	30.68	28.02	-91.59	-816.32	-326.30	1,260.79	1,202.96	57.82	21.804					
8,800.00	7,634.00	8,658.58	7,668.95	30.89	28.18	-91.59	-900.34	-327.06	1,259.49	1,201.36	58.13	21.667					
8,900.00	7,634.00	8,758.58	7,668.88	31.11	28.39	-91.59	-1,000.34	-327.69	1,258.53	1,199.99	58.54	21.499					
9,000.00	7,634.00	8,858.57	7,668.82	31.34	28.61	-91.59	-1,100.33	-328.32	1,257.56	1,198.58	58.98	21.320					
9,100.00	7,634.00	8,958.57	7,668.75	31.59	28.85	-91.58	-1,200.32	-328.95	1,256.60	1,197.13	59.47	21.131					
9,200.00	7,634.00	9,058.56	7,668.68	31.85	29.11	-91.58	-1,300.32	-329.58	1,255.64	1,195.65	59.98	20.933					
9,300.00	7,634.00	9,158.56	7,668.61	32.13	29.39	-91.58	-1,400.31	-330.21	1,254.67	1,194.14	60.53	20.727					
9,400.00	7,634.00	9,258.55	7,668.55	32.41	29.69	-91.58	-1,500.30	-330.84	1,253.71	1,192.59	61.12	20.513					
9,500.00	7,634.00	9,358.55	7,668.48	32.72	30.00	-91.58	-1,600.30	-331.47	1,252.74	1,191.01	61.73	20.292					
9,600.00	7,634.00	9,458.54	7,668.41	33.03	30.33	-91.58	-1,700.29	-332.11	1,251.78	1,189.40	62.38	20.066					
9,700.00	7,634.00	9,558.54	7,668.35	33.36	30.67	-91.57	-1,800.28	-332.74	1,250.82	1,187.75	63.06	19.835					
9,800.00	7,634.00	9,658.53	7,668.28	33.70	31.03	-91.57	-1,900.28	-333.37	1,249.85	1,186.08	63.77	19.600					
9,900.00	7,634.00	9,758.53	7,668.21	34.05	31.40	-91.57	-2,000.27	-334.00	1,248.89	1,184.38	64.51	19.361					
10,000.00	7,634.00	9,858.52	7,668.15	34.42	31.79	-91.57	-2,100.26	-334.63	1,247.92	1,182.65	65.27	19.120					
10,100.00	7,634.00	9,958.52	7,668.08	34.80	32.18	-91.57	-2,200.26	-335.26	1,246.96	1,180.90	66.06	18.876					
10,200.00	7,634.00	10,058.52	7,668.01	35.19	32.60	-91.56	-2,300.25	-335.89	1,246.00	1,179.12	66.88	18.631					
10,300.00	7,634.00	10,158.51	7,667.95	35.59	33.02	-91.56	-2,400.24	-336.52	1,245.03	1,177.31	67.72	18.386					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 17H - OH - Plan 1

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
10,400.00	7,634.00	10,258.51	7,667.88	36.00	33.46	-91.56	-2,500.24	-337.15	1,244.07	1,175.49	68.58	18.140					
10,500.00	7,634.00	10,358.50	7,667.81	36.43	33.91	-91.56	-2,600.23	-337.78	1,243.10	1,173.63	69.47	17.894					
10,600.00	7,634.00	10,458.50	7,667.75	36.86	34.37	-91.56	-2,700.22	-338.41	1,242.14	1,171.76	70.38	17.649					
10,700.00	7,634.00	10,558.49	7,667.68	37.30	34.84	-91.55	-2,800.22	-339.05	1,241.18	1,169.87	71.31	17.405					
10,800.00	7,634.00	10,658.49	7,667.61	37.76	35.32	-91.55	-2,900.21	-339.68	1,240.21	1,167.95	72.26	17.163					
10,900.00	7,634.00	10,758.48	7,667.54	38.22	35.81	-91.55	-3,000.20	-340.31	1,239.25	1,166.02	73.23	16.922					
11,000.00	7,634.00	10,858.48	7,667.48	38.70	36.31	-91.55	-3,100.20	-340.94	1,238.28	1,164.06	74.22	16.684					
11,100.00	7,634.00	10,958.47	7,667.41	39.18	36.82	-91.55	-3,200.19	-341.57	1,237.32	1,162.09	75.23	16.447					
11,200.00	7,634.00	11,058.47	7,667.34	39.67	37.34	-91.55	-3,300.18	-342.20	1,236.36	1,160.10	76.25	16.214					
11,300.00	7,634.00	11,158.46	7,667.28	40.17	37.87	-91.54	-3,400.18	-342.83	1,235.39	1,158.10	77.30	15.983					
11,400.00	7,634.00	11,258.46	7,667.21	40.67	38.40	-91.54	-3,500.17	-343.46	1,234.43	1,156.07	78.35	15.755					
11,500.00	7,634.00	11,358.45	7,667.14	41.19	38.94	-91.54	-3,600.16	-344.09	1,233.46	1,154.04	79.43	15.530					
11,600.00	7,634.00	11,458.45	7,667.08	41.71	39.49	-91.54	-3,700.16	-344.72	1,232.50	1,151.99	80.51	15.308					
11,700.00	7,634.00	11,558.45	7,667.01	42.24	40.05	-91.54	-3,800.15	-345.35	1,231.54	1,149.92	81.62	15.089					
11,800.00	7,634.00	11,658.44	7,666.94	42.78	40.61	-91.53	-3,900.14	-345.98	1,230.57	1,147.84	82.73	14.874					
11,900.00	7,634.00	11,758.44	7,666.88	43.32	41.18	-91.53	-4,000.14	-346.62	1,229.61	1,145.75	83.86	14.663					
12,000.00	7,634.00	11,858.43	7,666.81	43.87	41.76	-91.53	-4,100.13	-347.25	1,228.64	1,143.64	85.00	14.455					
12,100.00	7,634.00	11,958.43	7,666.74	44.43	42.34	-91.53	-4,200.12	-347.88	1,227.68	1,141.53	86.15	14.250					
12,200.00	7,634.00	12,057.20	7,666.68	44.99	42.92	-91.53	-4,298.89	-348.50	1,226.72	1,139.42	87.30	14.052					
12,238.23	7,634.00	12,084.82	7,666.66	45.21	43.08	-91.53	-4,326.52	-348.54	1,226.54	1,138.93	87.61	14.000					
12,300.00	7,634.00	12,128.08	7,666.63	45.56	43.34	-91.52	-4,369.77	-348.07	1,227.00	1,138.92	88.08	13.930					
12,400.00	7,634.00	12,200.00	7,666.58	46.13	43.77	-91.52	-4,441.65	-345.84	1,229.74	1,140.88	88.85	13.840					
12,500.00	7,634.00	12,267.89	7,666.53	46.71	44.18	-91.51	-4,509.44	-342.08	1,234.90	1,145.36	89.54	13.792					
12,600.00	7,634.00	12,350.62	7,666.47	47.30	44.68	-91.50	-4,591.92	-335.66	1,242.27	1,151.82	90.45	13.734					
12,700.00	7,634.00	12,450.32	7,666.41	47.89	45.28	-91.49	-4,691.29	-327.60	1,250.02	1,158.37	91.65	13.639					
12,800.00	7,634.00	12,550.01	7,666.34	48.48	45.89	-91.48	-4,790.66	-319.53	1,257.84	1,164.98	92.86	13.545					
12,900.00	7,634.00	12,649.61	7,666.27	49.08	46.51	-91.47	-4,889.93	-311.48	1,266.81	1,172.72	94.08	13.465					
13,000.00	7,634.00	12,749.20	7,666.20	49.68	47.13	-91.45	-4,989.19	-303.42	1,275.81	1,180.50	95.31	13.386					
13,100.00	7,634.00	12,922.99	7,666.08	50.29	48.22	-91.43	-5,162.71	-294.14	1,282.18	1,184.44	97.74	13.119					
13,200.00	7,634.00	13,104.00	7,665.95	50.91	49.36	-91.43	-5,343.68	-295.67	1,282.26	1,182.20	100.06	12.815					
13,300.00	7,634.00	13,272.27	7,665.83	51.52	50.43	-91.43	-5,511.52	-307.30	1,276.10	1,174.09	102.02	12.509					
13,400.00	7,634.00	13,371.91	7,665.76	52.15	51.07	-91.44	-5,610.73	-316.61	1,267.69	1,164.40	103.28	12.274					
13,500.00	7,634.00	13,471.56	7,665.69	52.77	51.71	-91.45	-5,709.94	-325.92	1,259.27	1,154.71	104.56	12.044					
13,600.00	7,634.00	13,571.20	7,665.62	53.40	52.35	-91.45	-5,809.15	-335.23	1,250.86	1,145.01	105.84	11.818					
13,700.00	7,634.00	13,670.85	7,665.55	54.03	53.00	-91.46	-5,908.36	-344.54	1,242.44	1,135.31	107.13	11.597					
13,800.00	7,634.00	13,751.46	7,665.50	54.67	53.52	-91.47	-5,988.65	-351.73	1,234.51	1,126.26	108.25	11.404					
13,900.00	7,634.00	13,821.29	7,665.45	55.30	53.98	-91.47	-6,058.33	-356.33	1,228.85	1,119.61	109.23	11.250					
14,000.00	7,634.00	13,900.00	7,665.39	55.95	54.50	-91.47	-6,136.97	-359.48	1,225.66	1,115.38	110.29	11.113					
14,080.72	7,634.00	13,947.82	7,665.36	56.47	54.81	-91.47	-6,184.78	-360.33	1,224.80	1,113.89	110.91	11.043					
14,100.00	7,634.00	13,963.09	7,665.35	56.59	54.91	-91.47	-6,200.05	-360.45	1,224.83	1,113.73	111.10	11.024					
14,200.00	7,634.00	14,063.09	7,665.29	57.24	55.58	-91.46	-6,300.05	-361.08	1,225.13	1,112.70	112.42	10.897					
14,300.00	7,634.00	14,163.09	7,665.22	57.89	56.25	-91.46	-6,400.05	-361.71	1,225.42	1,111.67	113.75	10.773					
14,400.00	7,634.00	14,263.09	7,665.15	58.54	56.92	-91.46	-6,500.04	-362.34	1,225.72	1,110.64	115.08	10.651					
14,500.00	7,634.00	14,363.09	7,665.09	59.20	57.59	-91.45	-6,600.04	-362.97	1,226.01	1,109.59	116.42	10.531					
14,600.00	7,634.00	14,463.09	7,665.02	59.86	58.26	-91.45	-6,700.04	-363.60	1,226.30	1,108.55	117.76	10.414					
14,700.00	7,634.00	14,563.09	7,664.96	60.52	58.94	-91.45	-6,800.04	-364.23	1,226.60	1,107.50	119.10	10.299					
14,800.00	7,634.00	14,663.09	7,664.89	61.18	59.62	-91.44	-6,900.03	-364.87	1,226.89	1,106.44	120.45	10.186					
14,900.00	7,634.00	14,763.08	7,664.82	61.85	60.30	-91.44	-7,000.03	-365.50	1,227.19	1,105.39	121.80	10.075					
15,000.00	7,634.00	14,863.08	7,664.76	62.51	60.98	-91.44	-7,100.03	-366.13	1,227.48	1,104.32	123.16	9.967					
15,100.00	7,634.00	14,963.08	7,664.69	63.18	61.67	-91.43	-7,200.03	-366.76	1,227.78	1,103.26	124.52	9.860					
15,200.00	7,634.00	15,063.08	7,664.62	63.86	62.35	-91.43	-7,300.02	-367.39	1,228.07	1,102.19	125.89	9.755					
15,300.00	7,634.00	15,163.08	7,664.56	64.53	63.04	-91.43	-7,400.02	-368.02	1,228.37	1,101.11	127.25	9.653					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 17H - OH - Plan 1

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

Survey Program:		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	7,634.00	15,263.08	7,664.49	65.21	63.73	-91.42	-7,500.02	-368.66	1,228.66	1,100.03	128.63	9.552		
15,500.00	7,634.00	15,363.08	7,664.42	65.88	64.42	-91.42	-7,600.02	-369.29	1,229.01	1,099.01	130.00	9.454		
15,600.00	7,634.00	15,463.08	7,664.36	66.56	65.12	-91.42	-7,700.01	-369.92	1,229.37	1,097.99	131.38	9.357		
15,700.00	7,634.00	15,563.08	7,664.29	67.24	65.81	-91.41	-7,800.01	-370.55	1,229.74	1,096.98	132.76	9.263		
15,800.00	7,634.00	15,663.08	7,664.23	67.93	66.51	-91.41	-7,900.01	-371.18	1,230.10	1,095.96	134.15	9.170		
15,900.00	7,634.00	15,763.08	7,664.16	68.61	67.21	-91.40	-8,000.01	-371.81	1,230.47	1,094.93	135.54	9.078		
16,000.00	7,634.00	15,863.08	7,664.09	69.30	67.91	-91.40	-8,100.00	-372.44	1,230.84	1,093.91	136.93	8.989		
16,100.00	7,634.00	15,963.08	7,664.03	69.99	68.61	-91.40	-8,200.00	-373.08	1,231.20	1,092.88	138.32	8.901		
16,200.00	7,634.00	16,063.08	7,663.96	70.68	69.31	-91.39	-8,300.00	-373.71	1,231.57	1,091.85	139.72	8.815		
16,300.00	7,634.00	16,163.08	7,663.89	71.37	70.01	-91.39	-8,399.99	-374.34	1,231.93	1,090.81	141.12	8.730		
16,400.00	7,634.00	16,263.08	7,663.83	72.06	70.72	-91.39	-8,499.99	-374.97	1,232.30	1,089.78	142.52	8.646		
16,500.00	7,634.00	16,363.08	7,663.76	72.76	71.42	-91.38	-8,599.99	-375.60	1,232.66	1,088.74	143.93	8.565		
16,600.00	7,634.00	16,463.07	7,663.70	73.45	72.13	-91.38	-8,699.99	-376.23	1,233.03	1,087.69	145.33	8.484		
16,700.00	7,634.00	16,563.07	7,663.63	74.15	72.84	-91.38	-8,799.98	-376.86	1,233.39	1,086.65	146.74	8.405		
16,800.00	7,634.00	16,663.07	7,663.56	74.85	73.55	-91.37	-8,899.98	-377.50	1,233.76	1,085.60	148.16	8.327		
16,900.00	7,634.00	16,763.07	7,663.50	75.55	74.26	-91.37	-8,999.98	-378.13	1,234.12	1,084.55	149.57	8.251		
17,000.00	7,634.00	16,863.07	7,663.43	76.25	74.97	-91.37	-9,099.98	-378.76	1,234.49	1,083.50	150.99	8.176		
17,100.00	7,634.00	16,963.07	7,663.36	76.95	75.68	-91.36	-9,199.97	-379.39	1,234.86	1,082.45	152.41	8.102		
17,200.00	7,634.00	17,063.07	7,663.30	77.65	76.40	-91.36	-9,299.97	-380.02	1,235.22	1,081.39	153.83	8.030		
17,300.00	7,634.00	17,163.07	7,663.23	78.36	77.11	-91.36	-9,399.97	-380.65	1,235.59	1,080.34	155.25	7.959		
17,400.00	7,634.00	17,263.07	7,663.16	79.06	77.83	-91.35	-9,499.96	-381.28	1,235.95	1,079.28	156.67	7.889		
17,500.00	7,634.00	17,363.07	7,663.10	79.77	78.54	-91.35	-9,599.96	-381.92	1,236.32	1,078.22	158.10	7.820		
17,600.00	7,634.00	17,463.07	7,663.03	80.48	79.26	-91.35	-9,699.96	-382.55	1,236.68	1,077.15	159.53	7.752		
17,700.00	7,634.00	17,563.07	7,662.97	81.19	79.98	-91.34	-9,799.96	-383.18	1,237.05	1,076.09	160.96	7.685		
17,800.00	7,634.00	17,663.07	7,662.90	81.90	80.70	-91.34	-9,899.95	-383.81	1,237.41	1,075.02	162.39	7.620		
17,900.00	7,634.00	17,763.07	7,662.83	82.61	81.42	-91.33	-9,999.95	-384.44	1,237.78	1,073.95	163.83	7.555		
18,000.00	7,634.00	17,863.06	7,662.77	83.32	82.14	-91.33	-10,099.95	-385.07	1,238.15	1,072.88	165.26	7.492		
18,100.00	7,634.00	17,963.06	7,662.70	84.03	82.86	-91.33	-10,199.95	-385.70	1,238.51	1,071.81	166.70	7.430		
18,200.00	7,634.00	18,063.06	7,662.63	84.74	83.58	-91.32	-10,299.94	-386.34	1,238.88	1,070.74	168.14	7.370		
18,300.00	7,634.00	18,163.06	7,662.57	85.46	84.31	-91.32	-10,399.94	-386.97	1,239.25	1,070.25	169.58	7.311		
18,400.00	7,634.00	18,263.06	7,662.50	86.17	85.03	-91.32	-10,499.93	-387.60	1,240.44	1,069.42	171.02	7.253		
18,500.00	7,634.00	18,363.06	7,662.44	86.89	85.75	-91.31	-10,599.93	-388.23	1,241.05	1,068.59	172.46	7.196		
18,600.00	7,634.00	18,463.05	7,662.37	87.60	86.48	-91.31	-10,699.93	-388.86	1,241.66	1,067.76	173.91	7.140		
18,700.00	7,634.00	18,563.05	7,662.30	88.32	87.20	-91.31	-10,799.92	-389.49	1,242.27	1,066.92	175.35	7.084		
18,800.00	7,634.00	18,663.05	7,662.24	89.04	87.93	-91.30	-10,899.92	-390.12	1,242.89	1,066.09	176.80	7.030		
18,900.00	7,634.00	18,763.05	7,662.17	89.76	88.66	-91.30	-10,999.91	-390.76	1,243.50	1,065.25	178.25	6.976		
19,000.00	7,634.00	18,863.05	7,662.10	90.48	89.39	-91.29	-11,099.91	-391.39	1,244.11	1,064.41	179.70	6.923		
19,100.00	7,634.00	18,963.04	7,662.04	91.20	90.11	-91.29	-11,199.91	-392.02	1,244.72	1,063.57	181.15	6.871		
19,200.00	7,634.00	19,063.04	7,661.97	91.92	90.84	-91.29	-11,299.90	-392.65	1,245.33	1,062.73	182.60	6.820		
19,300.00	7,634.00	19,163.04	7,661.91	92.64	91.57	-91.28	-11,399.90	-393.28	1,245.94	1,061.89	184.05	6.769		
19,400.00	7,634.00	19,263.04	7,661.84	93.37	92.30	-91.28	-11,499.89	-393.91	1,246.56	1,061.05	185.51	6.720		
19,500.00	7,634.00	19,363.04	7,661.77	94.09	93.03	-91.28	-11,599.89	-394.54	1,247.17	1,060.20	186.96	6.671		
19,600.00	7,634.00	19,463.03	7,661.71	94.81	93.76	-91.27	-11,699.89	-395.18	1,247.78	1,059.36	188.42	6.622		
19,700.00	7,634.00	19,563.03	7,661.64	95.54	94.50	-91.27	-11,799.88	-395.81	1,248.39	1,058.51	189.88	6.575		
19,800.00	7,634.00	19,663.03	7,661.57	96.26	95.23	-91.27	-11,899.88	-396.44	1,249.00	1,057.66	191.34	6.528		
19,900.00	7,634.00	19,763.03	7,661.51	96.99	95.96	-91.26	-11,999.87	-397.07	1,249.61	1,056.81	192.80	6.481		
20,000.00	7,634.00	19,863.03	7,661.44	97.71	96.69	-91.26	-12,099.87	-397.70	1,250.22	1,055.96	194.26	6.436		
20,100.00	7,634.00	19,963.03	7,661.37	98.44	97.43	-91.25	-12,199.87	-398.33	1,250.84	1,055.11	195.72	6.391		
20,200.00	7,634.00	20,063.02	7,661.31	99.17	98.16	-91.25	-12,299.86	-398.96	1,251.45	1,054.26	197.19	6.347		
20,300.00	7,634.00	20,163.02	7,661.24	99.89	98.90	-91.25	-12,399.86	-399.60	1,252.06	1,053.41	198.65	6.303		
20,400.00	7,634.00	20,263.02	7,661.18	100.62	99.63	-91.24	-12,499.86	-400.23	1,252.67	1,052.56	200.12	6.260		
20,500.00	7,634.00	20,363.02	7,661.11	101.35	100.37	-91.24	-12,599.85	-400.86	1,253.28	1,051.70	201.58	6.217		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 17H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,600.00	7,634.00	20,463.02	7,661.04	102.08	101.10	-91.24	-12,699.85	-401.49	1,253.89	1,050.85	203.05	6.175	
20,700.00	7,634.00	20,563.01	7,660.98	102.81	101.84	-91.23	-12,799.84	-402.12	1,254.51	1,049.99	204.52	6.134	
20,800.00	7,634.00	20,663.01	7,660.91	103.54	102.57	-91.23	-12,899.84	-402.75	1,255.12	1,049.13	205.99	6.093	
20,900.00	7,634.00	20,763.01	7,660.84	104.27	103.31	-91.22	-12,999.84	-403.38	1,255.73	1,048.27	207.46	6.053	
21,000.00	7,634.00	20,863.01	7,660.78	105.00	104.05	-91.22	-13,099.83	-404.02	1,256.34	1,047.42	208.93	6.013	
21,100.00	7,634.00	20,963.01	7,660.71	105.74	104.79	-91.22	-13,199.83	-404.65	1,256.95	1,046.56	210.40	5.974	
21,200.00	7,634.00	21,063.00	7,660.65	106.47	105.53	-91.21	-13,299.82	-405.28	1,257.56	1,045.70	211.87	5.936	
21,300.00	7,634.00	21,163.00	7,660.58	107.20	106.26	-91.21	-13,399.82	-405.91	1,258.18	1,044.83	213.34	5.897	
21,400.00	7,634.00	21,263.00	7,660.51	107.93	107.00	-91.21	-13,499.82	-406.54	1,258.79	1,043.97	214.82	5.860	
21,500.00	7,634.00	21,363.00	7,660.45	108.67	107.74	-91.20	-13,599.81	-407.17	1,259.40	1,043.11	216.29	5.823	
21,600.00	7,634.00	21,463.00	7,660.38	109.40	108.48	-91.20	-13,699.81	-407.80	1,260.01	1,042.25	217.76	5.786	
21,700.00	7,634.00	21,563.00	7,660.31	110.14	109.22	-91.20	-13,799.80	-408.44	1,260.62	1,041.38	219.24	5.750	
21,800.00	7,634.00	21,662.99	7,660.25	110.87	109.96	-91.19	-13,899.80	-409.07	1,261.23	1,040.52	220.72	5.714	
21,900.00	7,634.00	21,762.99	7,660.18	111.61	110.70	-91.19	-13,999.80	-409.70	1,261.85	1,039.65	222.19	5.679	
22,000.00	7,634.00	21,862.99	7,660.11	112.34	111.44	-91.19	-14,099.79	-410.33	1,262.46	1,038.79	223.67	5.644	
22,100.00	7,634.00	21,962.99	7,660.05	113.08	112.19	-91.18	-14,199.79	-410.96	1,263.07	1,037.92	225.15	5.610	
22,200.00	7,634.00	22,062.99	7,659.98	113.81	112.93	-91.18	-14,299.78	-411.59	1,263.68	1,037.05	226.63	5.576	
22,300.00	7,634.00	22,162.98	7,659.92	114.55	113.67	-91.17	-14,399.78	-412.22	1,264.29	1,036.18	228.11	5.542	
22,400.00	7,634.00	22,262.98	7,659.85	115.29	114.41	-91.17	-14,499.78	-412.86	1,264.90	1,035.31	229.59	5.509	
22,500.00	7,634.00	22,362.98	7,659.78	116.02	115.15	-91.17	-14,599.77	-413.49	1,265.52	1,034.45	231.07	5.477	
22,600.00	7,634.00	22,462.98	7,659.72	116.76	115.90	-91.16	-14,699.77	-414.12	1,266.13	1,033.58	232.55	5.444	
22,700.00	7,634.00	22,562.98	7,659.65	117.50	116.64	-91.16	-14,799.77	-414.75	1,266.74	1,032.71	234.03	5.413	
22,800.00	7,634.00	22,662.97	7,659.58	118.24	117.38	-91.16	-14,899.76	-415.38	1,267.35	1,031.83	235.52	5.381	
22,900.00	7,634.00	22,762.97	7,659.52	118.98	118.13	-91.15	-14,999.76	-416.01	1,267.96	1,030.96	237.00	5.350	
23,000.00	7,634.00	22,862.97	7,659.45	119.72	118.87	-91.15	-15,099.75	-416.64	1,268.57	1,030.09	238.48	5.319	
23,100.00	7,634.00	22,962.97	7,659.39	120.46	119.61	-91.15	-15,199.75	-417.28	1,269.19	1,029.22	239.97	5.289	
23,200.00	7,634.00	23,062.97	7,659.32	121.19	120.36	-91.14	-15,299.75	-417.91	1,269.80	1,028.34	241.45	5.259	
23,235.54	7,634.00	23,091.89	7,659.30	121.46	120.57	-91.14	-15,328.67	-418.09	1,270.03	1,028.16	241.87	5.251	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 19H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.10	0.00	0.00	-0.64	34.99	-0.39	34.99				
100.00	100.00	99.90	100.00	0.28	0.28	-0.64	34.99	-0.39	34.99	34.44	0.55	63.418	
200.00	200.00	199.90	200.00	0.63	0.63	-0.64	34.99	-0.39	34.99	33.72	1.27	27.583	
300.00	300.00	299.90	300.00	0.99	0.99	-0.64	34.99	-0.39	34.99	33.01	1.99	17.623	
400.00	400.00	399.90	400.00	1.35	1.35	-0.64	34.99	-0.39	34.99	32.29	2.70	12.948	
500.00	500.00	499.90	500.00	1.71	1.71	-0.64	34.99	-0.39	34.99	31.57	3.42	10.233	
600.00	600.00	599.90	600.00	2.07	2.07	-0.64	34.99	-0.39	34.99	30.86	4.14	8.460	
700.00	700.00	699.90	700.00	2.43	2.43	-0.64	34.99	-0.39	34.99	30.14	4.85	7.210	
800.00	800.00	799.90	800.00	2.79	2.78	-0.64	34.99	-0.39	34.99	29.42	5.57	6.282	
900.00	900.00	899.90	900.00	3.14	3.14	-0.64	34.99	-0.39	34.99	28.70	6.29	5.566	
1,000.00	1,000.00	999.90	1,000.00	3.50	3.50	-0.64	34.99	-0.39	34.99	27.99	7.00	4.996	
1,100.00	1,100.00	1,099.90	1,100.00	3.86	3.86	-0.64	34.99	-0.39	34.99	27.27	7.72	4.532	
1,200.00	1,200.00	1,199.90	1,200.00	4.22	4.22	-0.64	34.99	-0.39	34.99	26.55	8.44	4.147	
1,300.00	1,300.00	1,299.90	1,300.00	4.58	4.58	-0.64	34.99	-0.39	34.99	25.84	9.16	3.822	
1,400.00	1,400.00	1,399.90	1,400.00	4.94	4.94	-0.64	34.99	-0.39	34.99	25.12	9.87	3.545	
1,500.00	1,499.98	1,499.88	1,499.98	5.29	5.29	79.47	34.99	-0.39	34.63	24.05	10.58	3.273	
1,600.00	1,599.84	1,599.74	1,599.84	5.64	5.65	88.16	34.99	-0.39	34.07	22.78	11.29	3.018	
1,615.17	1,614.97	1,614.87	1,614.97	5.69	5.71	90.00	34.99	-0.39	34.05	22.65	11.39	2.988	CC, ES
1,700.00	1,699.45	1,699.35	1,699.45	5.98	6.01	102.54	34.99	-0.39	34.89	22.90	11.99	2.909	SF
1,800.00	1,798.70	1,798.60	1,798.70	6.34	6.37	119.94	34.99	-0.39	39.39	26.69	12.70	3.102	
1,900.00	1,897.47	1,898.25	1,898.34	6.69	6.72	134.17	35.71	-1.91	48.25	34.85	13.40	3.601	
2,000.00	1,995.62	1,998.37	1,998.31	7.05	7.07	143.09	37.94	-6.59	59.66	45.58	14.09	4.235	
2,100.00	2,093.06	2,098.94	2,098.50	7.41	7.42	148.55	41.69	-14.46	72.51	57.73	14.77	4.908	
2,200.00	2,189.81	2,200.05	2,198.85	7.77	7.78	151.77	46.99	-25.57	85.66	70.20	15.45	5.543	
2,300.00	2,286.50	2,300.26	2,297.93	8.14	8.13	153.17	53.44	-39.12	97.05	80.90	16.15	6.010	
2,400.00	2,383.18	2,399.61	2,396.12	8.51	8.49	154.17	59.95	-52.78	108.29	91.43	16.86	6.425	
2,500.00	2,479.87	2,498.96	2,494.32	8.88	8.84	154.99	66.46	-66.43	119.56	101.99	17.57	6.805	
2,600.00	2,576.55	2,598.31	2,592.51	9.25	9.20	155.67	72.97	-80.09	130.85	112.56	18.29	7.155	
2,700.00	2,673.24	2,697.66	2,690.70	9.63	9.55	156.24	79.47	-93.75	142.15	123.14	19.01	7.478	
2,800.00	2,769.92	2,797.01	2,788.89	10.01	9.91	156.72	85.98	-107.41	153.47	133.73	19.74	7.776	
2,900.00	2,866.61	2,896.36	2,887.08	10.39	10.27	157.14	92.49	-121.06	164.79	144.33	20.46	8.053	
3,000.00	2,963.30	2,995.71	2,985.27	10.77	10.63	157.51	99.00	-134.72	176.12	154.93	21.20	8.309	
3,100.00	3,059.98	3,095.06	3,083.46	11.15	10.99	157.83	105.51	-148.38	187.46	165.53	21.93	8.548	
3,200.00	3,156.67	3,194.41	3,181.65	11.54	11.35	158.11	112.01	-162.04	198.81	176.14	22.67	8.771	
3,300.00	3,253.35	3,293.76	3,279.85	11.92	11.71	158.37	118.52	-175.69	210.15	186.75	23.40	8.980	
3,400.00	3,350.04	3,393.11	3,378.04	12.31	12.07	158.59	125.03	-189.35	221.51	197.36	24.14	9.175	
3,500.00	3,446.73	3,492.46	3,476.23	12.70	12.44	158.80	131.54	-203.01	232.86	207.98	24.88	9.358	
3,600.00	3,543.41	3,591.81	3,574.42	13.09	12.80	158.99	138.05	-216.67	244.22	218.59	25.63	9.530	
3,700.00	3,640.10	3,691.16	3,672.61	13.48	13.16	159.16	144.55	-230.32	255.58	229.21	26.37	9.692	
3,800.00	3,736.78	3,790.51	3,770.80	13.86	13.53	159.31	151.06	-243.98	266.94	239.82	27.12	9.844	
3,900.00	3,833.47	3,889.86	3,868.99	14.26	13.89	159.45	157.57	-257.64	278.31	250.44	27.86	9.988	
4,000.00	3,930.15	3,989.21	3,967.18	14.65	14.25	159.59	164.08	-271.30	289.67	261.06	28.61	10.125	
4,100.00	4,026.84	4,088.56	4,065.38	15.04	14.62	159.71	170.58	-284.96	301.04	271.68	29.36	10.254	
4,200.00	4,123.53	4,187.91	4,163.57	15.43	14.98	159.82	177.09	-298.61	312.41	282.30	30.11	10.376	
4,300.00	4,220.21	4,287.26	4,261.76	15.82	15.35	159.92	183.60	-312.27	323.77	292.92	30.86	10.492	
4,400.00	4,316.90	4,386.61	4,359.95	16.21	15.71	160.02	190.11	-325.93	335.14	303.53	31.61	10.602	
4,500.00	4,413.58	4,485.96	4,458.14	16.61	16.08	160.11	196.62	-339.59	346.52	314.15	32.36	10.708	
4,600.00	4,510.27	4,585.31	4,556.33	17.00	16.45	160.20	203.12	-353.24	357.89	324.77	33.11	10.808	
4,700.00	4,606.96	4,684.66	4,654.52	17.39	16.81	160.28	209.63	-366.90	369.26	335.39	33.87	10.903	
4,800.00	4,703.64	4,784.01	4,752.71	17.79	17.18	160.35	216.14	-380.56	380.63	346.01	34.62	10.994	
4,900.00	4,800.33	4,883.36	4,850.91	18.18	17.55	160.42	222.65	-394.22	392.01	356.63	35.38	11.081	
5,000.00	4,897.01	4,982.71	4,949.10	18.58	17.91	160.49	229.16	-407.87	403.38	367.25	36.13	11.165	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 19H - OH - Plan 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 usft

Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	4,993.70	5,082.06	5,047.29	18.97	18.28	160.56	235.66	-421.53	414.76	377.87	36.89	11.245	
5,200.00	5,090.38	5,181.41	5,145.48	19.37	18.65	160.62	242.17	-435.19	426.13	388.49	37.64	11.321	
5,300.00	5,187.07	5,280.76	5,243.67	19.76	19.01	160.67	248.68	-448.85	437.51	399.11	38.40	11.394	
5,400.00	5,283.76	5,380.11	5,341.86	20.16	19.38	160.73	255.19	-462.51	448.88	409.73	39.15	11.465	
5,500.00	5,380.44	5,479.46	5,440.05	20.55	19.75	160.78	261.69	-476.16	460.26	420.35	39.91	11.532	
5,600.00	5,477.13	5,578.81	5,538.24	20.95	20.12	160.83	268.20	-489.82	471.64	430.97	40.67	11.597	
5,700.00	5,573.81	5,678.16	5,636.44	21.35	20.48	160.87	274.71	-503.48	483.01	441.59	41.43	11.660	
5,800.00	5,670.50	5,777.51	5,734.63	21.74	20.85	160.92	281.22	-517.14	494.39	452.21	42.18	11.720	
5,900.00	5,767.19	5,876.86	5,832.82	22.14	21.22	160.96	287.73	-530.79	505.77	462.83	42.94	11.778	
6,000.00	5,863.87	5,976.21	5,931.01	22.54	21.59	161.00	294.23	-544.45	517.15	473.45	43.70	11.834	
6,100.00	5,960.56	6,075.56	6,029.20	22.93	21.96	161.04	300.74	-558.11	528.53	484.07	44.46	11.888	
6,200.00	6,057.24	6,166.00	6,118.66	23.33	22.29	161.10	306.44	-570.06	540.43	495.26	45.18	11.963	
6,300.00	6,153.93	6,251.06	6,203.12	23.73	22.60	161.29	310.77	-579.16	554.71	508.87	45.85	12.099	
6,400.00	6,250.61	6,335.38	6,287.10	24.13	22.91	161.60	314.00	-585.93	571.50	525.02	46.48	12.295	
6,500.00	6,347.30	6,418.81	6,370.39	24.52	23.21	162.01	316.15	-590.44	590.79	543.70	47.09	12.546	
6,600.00	6,443.99	6,500.00	6,451.53	24.92	23.49	162.51	317.23	-592.72	612.58	564.93	47.65	12.857	
6,700.00	6,540.67	6,589.14	6,540.67	25.32	23.80	163.12	317.41	-593.09	636.63	588.35	48.28	13.187	
6,800.00	6,637.36	6,685.83	6,637.36	25.72	24.14	163.76	317.41	-593.09	661.17	612.17	49.00	13.494	
6,900.00	6,734.04	6,782.52	6,734.04	26.11	24.47	164.36	317.41	-593.09	685.78	636.06	49.72	13.793	
7,000.00	6,830.73	6,879.20	6,830.73	26.51	24.81	164.91	317.41	-593.09	710.46	660.01	50.44	14.085	
7,100.00	6,927.42	6,975.89	6,927.42	26.91	25.15	165.43	317.41	-593.09	735.19	684.03	51.16	14.369	
7,200.00	7,024.10	7,072.57	7,024.10	27.31	25.48	165.91	317.41	-593.09	759.98	708.09	51.89	14.647	
7,300.00	7,120.78	7,169.26	7,120.78	27.70	25.82	-168.79	317.41	-593.09	785.13	732.52	52.61	14.924	
7,400.00	7,216.15	7,264.62	7,216.15	28.08	26.15	-139.59	317.41	-593.09	811.63	758.32	53.31	15.225	
7,500.00	7,307.37	7,355.84	7,307.37	28.42	26.47	-124.46	317.41	-593.09	839.60	785.63	53.97	15.557	
7,600.00	7,391.67	7,440.14	7,391.67	28.72	26.76	-116.47	317.41	-593.09	869.83	815.26	54.57	15.940	
7,700.00	7,466.49	7,514.96	7,466.49	28.97	27.02	-111.62	317.41	-593.09	903.49	848.40	55.09	16.399	
7,800.00	7,529.56	7,578.03	7,529.56	29.18	27.24	-107.87	317.41	-593.09	941.76	886.23	55.53	16.960	
7,900.00	7,578.96	7,627.43	7,578.96	29.35	27.42	-104.07	317.41	-593.09	985.43	929.57	55.86	17.641	
8,000.00	7,613.19	7,661.67	7,613.19	29.50	27.54	-99.48	317.41	-593.09	1,034.62	978.55	56.07	18.452	
8,100.00	7,631.21	7,679.69	7,631.21	29.65	27.60	-93.78	317.41	-593.09	1,088.66	1,032.50	56.15	19.387	
8,200.00	7,634.00	7,682.47	7,634.00	29.80	27.61	-90.00	317.41	-593.09	1,146.46	1,090.33	56.12	20.428	
8,300.00	7,634.00	7,682.47	7,634.00	29.95	27.61	-90.00	317.41	-593.09	1,209.27	1,153.19	56.08	21.564	
8,400.00	7,634.00	7,682.47	7,634.00	30.12	27.61	-90.00	317.41	-593.09	1,276.60	1,220.57	56.04	22.781	
8,500.00	7,634.00	7,682.47	7,634.00	30.30	27.61	-90.00	317.41	-593.09	1,345.98	1,289.98	56.00	24.035	
8,600.00	7,634.00	7,682.47	7,634.00	30.49	27.61	-90.00	317.41	-593.09	1,416.66	1,360.69	55.97	25.311	
8,700.00	7,634.00	7,682.47	7,634.00	30.68	27.61	-90.00	317.41	-593.09	1,489.37	1,433.43	55.94	26.623	
8,800.00	7,634.00	9,768.63	8,750.10	30.89	32.04	-138.56	-898.54	-600.70	1,488.83	1,433.76	55.06	27.038	
8,900.00	7,634.00	9,868.63	8,750.10	31.11	32.23	-138.59	-998.54	-601.33	1,488.19	1,432.39	55.80	26.668	
9,000.00	7,634.00	9,968.62	8,750.10	31.34	32.44	-138.62	-1,098.53	-601.95	1,487.56	1,430.98	56.58	26.293	
9,100.00	7,634.00	10,068.62	8,750.10	31.59	32.66	-138.64	-1,198.52	-602.58	1,486.93	1,429.55	57.38	25.913	
9,200.00	7,634.00	10,168.61	8,750.10	31.85	32.90	-138.67	-1,298.52	-603.21	1,486.29	1,428.08	58.22	25.531	
9,300.00	7,634.00	10,268.61	8,750.10	32.13	33.15	-138.70	-1,398.51	-603.83	1,485.66	1,426.58	59.08	25.147	
9,400.00	7,634.00	10,368.60	8,750.10	32.41	33.42	-138.73	-1,498.50	-604.46	1,485.03	1,425.06	59.97	24.762	
9,500.00	7,634.00	10,468.60	8,750.10	32.72	33.70	-138.76	-1,598.50	-605.08	1,484.40	1,423.51	60.89	24.379	
9,600.00	7,634.00	10,568.60	8,750.10	33.03	34.00	-138.78	-1,698.49	-605.71	1,483.77	1,421.94	61.83	23.997	
9,700.00	7,634.00	10,668.59	8,750.10	33.36	34.31	-138.81	-1,798.48	-606.33	1,483.14	1,420.34	62.80	23.617	
9,800.00	7,634.00	10,768.59	8,750.10	33.70	34.64	-138.84	-1,898.48	-606.96	1,482.51	1,418.72	63.79	23.240	
9,900.00	7,634.00	10,868.58	8,750.10	34.05	34.98	-138.87	-1,998.47	-607.59	1,481.88	1,417.07	64.80	22.867	
10,000.00	7,634.00	10,968.58	8,750.10	34.42	35.33	-138.89	-2,098.47	-608.21	1,481.25	1,415.41	65.84	22.499	
10,100.00	7,634.00	11,068.57	8,750.10	34.80	35.70	-138.92	-2,198.46	-608.84	1,480.62	1,413.73	66.89	22.135	
10,200.00	7,634.00	11,168.57	8,750.10	35.19	36.07	-138.95	-2,298.45	-609.46	1,479.99	1,412.02	67.96	21.776	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 19H - OH - Plan 1

Survey Program: 0-MWD+IFR1+MS		Reference Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:
10,300.00	7,634.00	11,268.56	8,750.10	35.59	36.46	-138.98	-2,398.45	-610.09	1,479.36	1,410.30	69.06	21.422		
10,400.00	7,634.00	11,368.56	8,750.10	36.00	36.86	-139.01	-2,498.44	-610.72	1,478.73	1,408.57	70.17	21.075		
10,500.00	7,634.00	11,468.55	8,750.10	36.43	37.27	-139.03	-2,598.43	-611.34	1,478.10	1,406.81	71.29	20.733		
10,600.00	7,634.00	11,568.55	8,750.10	36.86	37.70	-139.06	-2,698.43	-611.97	1,477.48	1,405.04	72.43	20.398		
10,700.00	7,634.00	11,668.55	8,750.10	37.30	38.13	-139.09	-2,798.42	-612.59	1,476.85	1,403.26	73.59	20.069		
10,800.00	7,634.00	11,768.54	8,750.10	37.76	38.57	-139.12	-2,898.41	-613.22	1,476.22	1,401.46	74.76	19.746		
10,900.00	7,634.00	11,868.54	8,750.10	38.22	39.03	-139.15	-2,998.41	-613.85	1,475.60	1,399.65	75.95	19.430		
11,000.00	7,634.00	11,968.53	8,750.10	38.70	39.49	-139.17	-3,098.40	-614.47	1,474.97	1,397.83	77.14	19.120		
11,100.00	7,634.00	12,068.53	8,750.10	39.18	39.96	-139.20	-3,198.39	-615.10	1,474.34	1,395.99	78.35	18.816		
11,200.00	7,634.00	12,168.52	8,750.10	39.67	40.44	-139.23	-3,298.39	-615.72	1,473.72	1,394.14	79.58	18.520		
11,300.00	7,634.00	12,268.52	8,750.10	40.17	40.93	-139.26	-3,398.38	-616.35	1,473.09	1,392.28	80.81	18.229		
11,400.00	7,634.00	12,368.51	8,750.10	40.67	41.43	-139.29	-3,498.37	-616.98	1,472.47	1,390.41	82.06	17.945		
11,500.00	7,634.00	12,468.51	8,750.10	41.19	41.94	-139.32	-3,598.37	-617.60	1,471.84	1,388.53	83.31	17.667		
11,600.00	7,634.00	12,568.50	8,750.10	41.71	42.45	-139.34	-3,698.36	-618.23	1,471.22	1,386.64	84.58	17.395		
11,700.00	7,634.00	12,668.50	8,750.10	42.24	42.97	-139.37	-3,798.35	-618.85	1,470.60	1,384.75	85.85	17.130		
11,800.00	7,634.00	12,768.49	8,750.10	42.78	43.50	-139.40	-3,898.35	-619.48	1,469.97	1,382.84	87.13	16.870		
11,900.00	7,634.00	12,868.49	8,750.10	43.32	44.04	-139.43	-3,998.34	-620.11	1,469.35	1,380.92	88.43	16.617		
12,000.00	7,634.00	12,968.49	8,750.10	43.87	44.58	-139.46	-4,098.33	-620.73	1,468.73	1,379.00	89.73	16.369		
12,100.00	7,634.00	13,068.48	8,750.10	44.43	45.13	-139.49	-4,198.33	-621.36	1,468.10	1,377.07	91.04	16.126		
12,200.00	7,634.00	13,168.48	8,750.10	44.99	45.68	-139.51	-4,298.32	-621.98	1,467.48	1,375.13	92.35	15.890		
12,300.00	7,634.00	13,268.47	8,750.10	45.56	46.24	-139.54	-4,398.31	-622.61	1,466.86	1,373.18	93.68	15.659		
12,400.00	7,634.00	13,368.47	8,750.10	46.13	46.81	-139.57	-4,498.31	-623.23	1,466.24	1,371.23	95.01	15.433		
12,500.00	7,634.00	13,468.46	8,750.10	46.71	47.38	-139.60	-4,598.30	-623.86	1,465.62	1,369.27	96.35	15.212		
12,600.00	7,634.00	13,568.46	8,750.10	47.30	47.96	-139.63	-4,698.29	-624.49	1,465.00	1,367.31	97.69	14.996		
12,700.00	7,634.00	13,668.45	8,750.10	47.89	48.54	-139.66	-4,798.29	-625.11	1,464.38	1,365.34	99.04	14.786		
12,800.00	7,634.00	13,768.45	8,750.10	48.48	49.13	-139.68	-4,898.28	-625.74	1,463.80	1,363.41	100.40	14.580		
12,847.83	7,634.00	13,816.27	8,750.10	48.77	49.41	-139.68	-4,946.11	-626.04	1,463.76	1,362.71	101.05	14.486		
12,900.00	7,634.00	13,868.45	8,750.10	49.08	49.72	-139.67	-4,998.28	-626.36	1,463.97	1,362.20	101.76	14.386		
13,000.00	7,634.00	13,968.45	8,750.10	49.68	50.32	-139.67	-5,098.28	-626.99	1,464.16	1,361.02	103.14	14.196		
13,100.00	7,634.00	14,068.45	8,750.10	50.29	50.92	-139.66	-5,198.28	-627.62	1,464.36	1,359.84	104.51	14.011		
13,200.00	7,634.00	14,168.45	8,750.10	50.91	51.52	-139.65	-5,298.27	-628.24	1,464.55	1,358.65	105.90	13.830		
13,300.00	7,634.00	14,268.45	8,750.10	51.52	52.13	-139.64	-5,398.27	-628.87	1,464.75	1,357.46	107.28	13.653		
13,400.00	7,634.00	14,368.45	8,750.10	52.15	52.75	-139.63	-5,498.27	-629.49	1,464.94	1,356.27	108.68	13.480		
13,500.00	7,634.00	14,468.45	8,750.10	52.77	53.36	-139.62	-5,598.27	-630.12	1,465.14	1,355.07	110.07	13.311		
13,600.00	7,634.00	14,568.45	8,750.10	53.40	53.99	-139.61	-5,698.26	-630.75	1,465.33	1,353.86	111.47	13.145		
13,700.00	7,634.00	14,668.45	8,750.10	54.03	54.61	-139.60	-5,798.26	-631.37	1,465.53	1,352.65	112.88	12.983		
13,800.00	7,634.00	14,768.45	8,750.10	54.67	55.24	-139.59	-5,898.26	-632.00	1,465.73	1,351.44	114.28	12.825		
13,900.00	7,634.00	14,868.44	8,750.10	55.30	55.87	-139.58	-5,998.26	-632.62	1,465.92	1,350.22	115.70	12.670		
14,000.00	7,634.00	14,968.44	8,750.10	55.95	56.51	-139.58	-6,098.25	-633.25	1,466.12	1,349.00	117.11	12.519		
14,100.00	7,634.00	15,068.44	8,750.10	56.59	57.14	-139.57	-6,198.25	-633.88	1,466.31	1,347.78	118.53	12.371		
14,200.00	7,634.00	15,168.44	8,750.10	57.24	57.79	-139.56	-6,298.25	-634.50	1,466.51	1,346.56	119.95	12.226		
14,300.00	7,634.00	15,268.44	8,750.10	57.89	58.43	-139.55	-6,398.25	-635.13	1,466.70	1,345.33	121.38	12.084		
14,400.00	7,634.00	15,368.44	8,750.10	58.54	59.08	-139.54	-6,498.24	-635.75	1,466.90	1,344.10	122.80	11.945		
14,500.00	7,634.00	15,468.44	8,750.10	59.20	59.73	-139.53	-6,598.24	-636.38	1,467.09	1,342.86	124.23	11.809		
14,600.00	7,634.00	15,568.44	8,750.10	59.86	60.38	-139.52	-6,698.24	-637.01	1,467.29	1,341.62	125.67	11.676		
14,700.00	7,634.00	15,668.44	8,750.10	60.52	61.04	-139.51	-6,798.24	-637.63	1,467.49	1,340.38	127.10	11.546		
14,800.00	7,634.00	15,768.44	8,750.10	61.18	61.69	-139.50	-6,898.23	-638.26	1,467.68	1,339.14	128.54	11.418		
14,900.00	7,634.00	15,868.44	8,750.10	61.85	62.35	-139.50	-6,998.23	-638.88	1,467.88	1,337.89	129.98	11.293		
15,000.00	7,634.00	15,968.44	8,750.10	62.51	63.02	-139.49	-7,098.23	-639.51	1,468.07	1,336.65	131.43	11.170		
15,100.00	7,634.00	16,068.44	8,750.10	63.18	63.68	-139.48	-7,198.23	-640.14	1,468.27	1,335.40	132.87	11.050		
15,200.00	7,634.00	16,168.44	8,750.10	63.86	64.35	-139.47	-7,298.22	-640.76	1,468.47	1,334.14	134.32	10.932		
15,300.00	7,634.00	16,268.44	8,750.10	64.53	65.02	-139.46	-7,398.22	-641.39	1,468.66	1,332.89	135.77	10.817		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 19H - OH - Plan 1

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,400.00	7,634.00	16,368.44	8,750.10	65.21	65.69	-139.45	-7,498.22	-642.01	1,468.86	1,331.63	137.23	10.704			
15,500.00	7,634.00	16,468.44	8,750.10	65.88	66.36	-139.44	-7,598.22	-642.64	1,469.09	1,330.41	138.68	10.593			
15,600.00	7,634.00	16,568.44	8,750.10	66.56	67.04	-139.43	-7,698.21	-643.27	1,469.33	1,329.19	140.14	10.485			
15,700.00	7,634.00	16,668.44	8,750.10	67.24	67.71	-139.42	-7,798.21	-643.89	1,469.57	1,327.98	141.60	10.378			
15,800.00	7,634.00	16,768.44	8,750.10	67.93	68.39	-139.41	-7,898.21	-644.52	1,469.82	1,326.76	143.06	10.274			
15,900.00	7,634.00	16,868.43	8,750.10	68.61	69.07	-139.40	-7,998.21	-645.14	1,470.06	1,325.54	144.52	10.172			
16,000.00	7,634.00	16,968.43	8,750.10	69.30	69.76	-139.38	-8,098.20	-645.77	1,470.30	1,324.31	145.99	10.071			
16,100.00	7,634.00	17,068.43	8,750.10	69.99	70.44	-139.37	-8,198.20	-646.39	1,470.54	1,323.09	147.45	9.973			
16,200.00	7,634.00	17,168.43	8,750.10	70.68	71.12	-139.36	-8,298.20	-647.02	1,470.79	1,321.87	148.92	9.876			
16,300.00	7,634.00	17,268.43	8,750.10	71.37	71.81	-139.35	-8,398.20	-647.65	1,471.03	1,320.64	150.39	9.781			
16,400.00	7,634.00	17,368.43	8,750.10	72.06	72.50	-139.34	-8,498.19	-648.27	1,471.27	1,319.41	151.86	9.688			
16,500.00	7,634.00	17,468.43	8,750.10	72.76	73.19	-139.33	-8,598.19	-648.90	1,471.52	1,318.18	153.34	9.597			
16,600.00	7,634.00	17,568.43	8,750.10	73.45	73.88	-139.32	-8,698.19	-649.52	1,471.76	1,316.95	154.81	9.507			
16,700.00	7,634.00	17,668.43	8,750.10	74.15	74.58	-139.31	-8,798.19	-650.15	1,472.00	1,315.72	156.29	9.419			
16,800.00	7,634.00	17,768.43	8,750.10	74.85	75.27	-139.30	-8,898.18	-650.78	1,472.24	1,314.48	157.76	9.332			
16,900.00	7,634.00	17,868.43	8,750.10	75.55	75.97	-139.29	-8,998.18	-651.40	1,472.49	1,313.25	159.24	9.247			
17,000.00	7,634.00	17,968.43	8,750.10	76.25	76.66	-139.27	-9,098.18	-652.03	1,472.73	1,312.01	160.72	9.163			
17,100.00	7,634.00	18,068.43	8,750.10	76.95	77.36	-139.26	-9,198.17	-652.65	1,472.97	1,310.77	162.20	9.081			
17,200.00	7,634.00	18,168.43	8,750.10	77.65	78.06	-139.25	-9,298.17	-653.28	1,473.22	1,309.53	163.68	9.000			
17,300.00	7,634.00	18,268.42	8,750.10	78.36	78.76	-139.24	-9,398.17	-653.91	1,473.46	1,308.29	165.17	8.921			
17,400.00	7,634.00	18,368.42	8,750.10	79.06	79.47	-139.23	-9,498.17	-654.53	1,473.70	1,307.05	166.65	8.843			
17,500.00	7,634.00	18,468.42	8,750.10	79.77	80.17	-139.22	-9,598.16	-655.16	1,473.95	1,305.81	168.14	8.766			
17,600.00	7,634.00	18,568.42	8,750.10	80.48	80.87	-139.21	-9,698.16	-655.78	1,474.19	1,304.57	169.63	8.691			
17,700.00	7,634.00	18,668.42	8,750.10	81.19	81.58	-139.20	-9,798.16	-656.41	1,474.43	1,303.32	171.11	8.617			
17,800.00	7,634.00	18,768.42	8,750.10	81.90	82.21	-139.18	-9,898.09	-656.82	1,474.81	1,302.37	172.45	8.552			
17,900.00	7,634.00	18,833.12	8,750.10	82.61	82.74	-139.12	-9,962.84	-655.53	1,476.60	1,303.08	173.52	8.510			
18,000.00	7,634.00	18,900.00	8,750.10	83.32	83.22	-139.02	-10,029.66	-652.72	1,480.12	1,305.72	174.40	8.487			
18,100.00	7,634.00	18,982.08	8,750.10	84.03	83.80	-138.84	-10,111.55	-647.15	1,485.37	1,309.84	175.53	8.462			
18,200.00	7,634.00	19,056.06	8,750.10	84.74	84.33	-138.61	-10,185.19	-640.12	1,492.48	1,316.02	176.45	8.458			
18,300.00	7,634.00	19,129.57	8,750.10	85.46	84.85	-138.33	-10,258.17	-631.25	1,501.34	1,324.02	177.32	8.467			
18,400.00	7,634.00	19,200.00	8,750.10	86.17	85.35	-138.01	-10,327.84	-621.00	1,511.98	1,333.91	178.07	8.491			
18,500.00	7,634.00	19,275.79	8,750.10	86.89	85.89	-137.62	-10,402.52	-608.06	1,524.40	1,345.50	178.90	8.521			
18,600.00	7,634.00	19,373.88	8,750.10	87.60	86.59	-137.09	-10,498.95	-590.16	1,537.73	1,357.40	180.33	8.527			
18,700.00	7,634.00	19,471.96	8,750.10	88.32	87.29	-136.57	-10,595.39	-572.25	1,551.19	1,369.44	181.75	8.535			
18,800.00	7,634.00	19,570.04	8,750.10	89.04	87.99	-136.05	-10,691.83	-554.34	1,564.78	1,381.61	183.18	8.542			
18,900.00	7,634.00	19,668.13	8,750.10	89.76	88.69	-135.55	-10,788.26	-536.44	1,578.50	1,393.90	184.60	8.551			
19,000.00	7,634.00	19,766.21	8,750.10	90.48	89.39	-135.06	-10,884.70	-518.53	1,592.33	1,406.32	186.02	8.560			
19,100.00	7,634.00	19,864.30	8,750.10	91.20	90.10	-134.57	-10,981.14	-500.62	1,606.28	1,418.85	187.43	8.570			
19,200.00	7,634.00	19,962.38	8,750.10	91.92	90.80	-134.09	-11,077.57	-482.72	1,620.35	1,431.50	188.85	8.580			
19,300.00	7,634.00	20,060.47	8,750.10	92.64	91.51	-133.62	-11,174.01	-464.81	1,634.52	1,444.26	190.26	8.591			
19,400.00	7,634.00	20,158.55	8,750.10	93.37	92.21	-133.16	-11,270.44	-446.90	1,648.81	1,457.14	191.67	8.602			
19,500.00	7,634.00	20,256.64	8,750.10	94.09	92.92	-132.70	-11,366.88	-429.00	1,663.20	1,470.11	193.08	8.614			
19,600.00	7,634.00	20,354.72	8,750.10	94.81	93.63	-132.25	-11,463.32	-411.09	1,677.69	1,483.20	194.49	8.626			
19,700.00	7,634.00	20,452.81	8,750.10	95.54	94.35	-131.81	-11,559.75	-393.18	1,692.28	1,496.38	195.90	8.639			
19,800.00	7,634.00	20,550.89	8,750.10	96.26	95.06	-131.38	-11,656.19	-375.28	1,706.97	1,509.67	197.31	8.651			
19,900.00	7,634.00	20,648.98	8,750.10	96.99	95.77	-130.96	-11,752.63	-357.37	1,721.76	1,523.05	198.71	8.665			
20,000.00	7,634.00	20,747.06	8,750.10	97.71	96.49	-130.54	-11,849.06	-339.46	1,736.63	1,536.52	200.12	8.678			
20,100.00	7,634.00	20,845.14	8,750.10	98.44	97.20	-130.13	-11,945.50	-321.56	1,751.60	1,550.08	201.52	8.692			
20,200.00	7,634.00	20,943.23	8,750.10	99.17	97.92	-129.72	-12,041.93	-303.65	1,766.66	1,563.73	202.93	8.706			
20,300.00	7,634.00	21,041.31	8,750.10	99.89	98.64	-129.33	-12,138.37	-285.74	1,781.80	1,577.47	204.33	8.720			
20,400.00	7,634.00	21,139.40	8,750.10	100.62	99.36	-128.94	-12,234.81	-267.84	1,797.02	1,591.29	205.73	8.735			
20,500.00	7,634.00	21,237.48	8,750.10	101.35	100.07	-128.55	-12,331.24	-249.93	1,812.33	1,605.20	207.14	8.750			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Pintail 23-26-35 Federal Com - Pintail 23-26-35 Federal Com 19H - OH - Plan 1

Survey Program:		0-MWD+IFR1+MS		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,600.00	7,634.00	21,335.57	8,750.10	102.08	100.80	-128.17	-12,427.68	-232.02	1,827.72	1,619.18	208.54	8.764	
20,700.00	7,634.00	21,433.65	8,750.10	102.81	101.52	-127.80	-12,524.12	-214.12	1,843.18	1,633.24	209.94	8.780	
20,800.00	7,634.00	21,531.74	8,750.10	103.54	102.24	-127.44	-12,620.55	-196.21	1,858.72	1,647.38	211.34	8.795	
20,900.00	7,634.00	21,629.82	8,750.10	104.27	102.96	-127.08	-12,716.99	-178.30	1,874.33	1,661.58	212.75	8.810	
21,000.00	7,634.00	21,727.91	8,750.10	105.00	103.69	-126.72	-12,813.42	-160.40	1,890.02	1,675.86	214.15	8.826	
21,100.00	7,634.00	21,825.99	8,750.10	105.74	104.41	-126.38	-12,909.86	-142.49	1,905.77	1,690.22	215.55	8.841	
21,200.00	7,634.00	21,924.08	8,750.10	106.47	105.14	-126.03	-13,006.30	-124.59	1,921.59	1,704.64	216.96	8.857	
21,300.00	7,634.00	22,022.16	8,750.10	107.20	105.87	-125.70	-13,102.73	-106.68	1,937.48	1,719.12	218.36	8.873	
21,400.00	7,634.00	22,120.24	8,750.10	107.93	106.59	-125.37	-13,199.17	-88.77	1,953.44	1,733.67	219.76	8.889	
21,500.00	7,634.00	22,218.33	8,750.10	108.67	107.32	-125.04	-13,295.60	-70.87	1,969.45	1,748.28	221.17	8.905	
21,600.00	7,634.00	22,316.41	8,750.10	109.40	108.05	-124.72	-13,392.04	-52.96	1,985.53	1,762.96	222.57	8.921	
21,700.00	7,634.00	22,414.50	8,750.10	110.14	108.78	-124.40	-13,488.48	-35.05	2,001.67	1,777.69	223.98	8.937	
21,800.00	7,634.00	22,512.58	8,750.10	110.87	109.51	-124.09	-13,584.91	-17.15	2,017.87	1,792.49	225.39	8.953	
21,900.00	7,634.00	22,610.67	8,750.10	111.61	110.24	-123.79	-13,681.35	0.76	2,034.13	1,807.34	226.79	8.969	
22,000.00	7,634.00	22,708.75	8,750.10	112.34	110.98	-123.49	-13,777.79	18.67	2,050.44	1,822.24	228.20	8.985	
22,100.00	7,634.00	22,806.84	8,750.10	113.08	111.71	-123.19	-13,874.22	36.57	2,066.81	1,837.20	229.61	9.001	
22,200.00	7,634.00	22,904.92	8,750.10	113.81	112.44	-122.90	-13,970.66	54.48	2,083.23	1,852.21	231.02	9.018	
22,300.00	7,634.00	23,003.01	8,750.10	114.55	113.18	-122.61	-14,067.09	72.39	2,099.70	1,867.28	232.43	9.034	
22,400.00	7,634.00	23,101.09	8,750.10	115.29	113.91	-122.33	-14,163.53	90.29	2,116.23	1,882.39	233.84	9.050	
22,500.00	7,634.00	23,199.17	8,750.10	116.02	114.65	-122.05	-14,259.97	108.20	2,132.80	1,897.55	235.25	9.066	
22,600.00	7,634.00	23,297.26	8,750.10	116.76	115.38	-121.78	-14,356.40	126.11	2,149.42	1,912.76	236.66	9.082	
22,700.00	7,634.00	23,395.34	8,750.10	117.50	116.12	-121.51	-14,452.84	144.01	2,166.09	1,928.02	238.07	9.099	
22,800.00	7,634.00	23,493.43	8,750.10	118.24	116.86	-121.24	-14,549.28	161.92	2,182.81	1,943.33	239.48	9.115	
22,900.00	7,634.00	23,591.51	8,750.10	118.98	117.59	-120.98	-14,645.71	179.83	2,199.57	1,958.67	240.90	9.131	
23,000.00	7,634.00	23,689.60	8,750.10	119.72	118.33	-120.72	-14,742.15	197.73	2,216.38	1,974.07	242.31	9.147	
23,100.00	7,634.00	23,787.68	8,750.10	120.46	119.07	-120.47	-14,838.58	215.64	2,233.23	1,989.50	243.73	9.163	
23,200.00	7,634.00	23,885.77	8,750.10	121.19	119.81	-120.22	-14,935.02	233.55	2,250.12	2,004.98	245.14	9.179	
23,235.54	7,634.00	23,920.63	8,750.10	121.46	120.07	-120.13	-14,969.29	239.91	2,256.14	2,010.49	245.65	9.184	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - GOLDENEYE 26 FEDERAL COM #2 - OH - Svy

Offset Site Error: 0.00 usft

Survey Program:		100-MWD OWSG Rev5		Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Reference	Vertical	Measured	Vertical	Reference	Offset		+N/-S	+E/-W	Between Centres	Between Ellipses			
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(")	(usft)	(usft)	(usft)	(usft)	(usft)		
10,100.00	7,634.00	7,552.31	7,619.01	34.80	13.60	-89.27	-5,212.44	-398.44	3,243.65	3,198.24	45.40	71.442	
10,200.00	7,634.00	7,552.88	7,619.58	35.19	13.60	-89.30	-5,212.45	-398.44	3,150.63	3,104.99	45.64	69.040	
10,300.00	7,634.00	7,553.45	7,620.15	35.59	13.60	-89.32	-5,212.45	-398.44	3,058.05	3,012.16	45.88	66.646	
10,400.00	7,634.00	7,554.02	7,620.72	36.00	13.60	-89.35	-5,212.45	-398.44	2,965.95	2,919.80	46.15	64.264	
10,500.00	7,634.00	7,554.59	7,621.29	36.43	13.60	-89.38	-5,212.46	-398.44	2,874.38	2,827.94	46.44	61.894	
10,600.00	7,634.00	7,555.15	7,621.86	36.86	13.60	-89.41	-5,212.46	-398.44	2,783.39	2,736.64	46.75	59.538	
10,700.00	7,634.00	7,555.72	7,622.43	37.30	13.60	-89.43	-5,212.46	-398.44	2,693.04	2,645.96	47.08	57.198	
10,800.00	7,634.00	7,556.29	7,622.99	37.76	13.60	-89.46	-5,212.46	-398.45	2,603.39	2,555.95	47.44	54.875	
10,900.00	7,634.00	7,556.86	7,623.56	38.22	13.60	-89.49	-5,212.47	-398.45	2,514.53	2,466.70	47.83	52.573	
11,000.00	7,634.00	7,557.42	7,624.13	38.70	13.60	-89.52	-5,212.47	-398.45	2,426.53	2,378.28	48.25	50.293	
11,100.00	7,634.00	7,557.99	7,624.69	39.18	13.60	-89.55	-5,212.47	-398.45	2,339.50	2,290.80	48.70	48.039	
11,200.00	7,634.00	7,558.55	7,625.26	39.67	13.60	-89.57	-5,212.48	-398.45	2,253.54	2,204.35	49.19	45.815	
11,300.00	7,634.00	7,559.11	7,625.82	40.17	13.60	-89.60	-5,212.48	-398.45	2,168.79	2,119.07	49.72	43.624	
11,400.00	7,634.00	7,559.68	7,626.38	40.67	13.60	-89.63	-5,212.48	-398.45	2,085.39	2,035.10	50.28	41.471	
11,500.00	7,634.00	7,560.24	7,626.95	41.19	13.61	-89.66	-5,212.49	-398.45	2,003.51	1,952.61	50.90	39.362	
11,600.00	7,634.00	7,560.80	7,627.51	41.71	13.61	-89.68	-5,212.49	-398.45	1,923.34	1,871.78	51.56	37.301	
11,700.00	7,634.00	7,561.36	7,628.07	42.24	13.61	-89.71	-5,212.49	-398.45	1,845.11	1,792.83	52.27	35.297	
11,800.00	7,634.00	7,561.92	7,628.63	42.78	13.61	-89.74	-5,212.50	-398.45	1,769.07	1,716.04	53.04	33.355	
11,900.00	7,634.00	7,562.48	7,629.19	43.32	13.61	-89.77	-5,212.50	-398.46	1,695.53	1,641.68	53.85	31.486	
12,000.00	7,634.00	7,563.04	7,629.75	43.87	13.61	-89.79	-5,212.50	-398.46	1,624.81	1,570.10	54.71	29.698	
12,100.00	7,634.00	7,563.60	7,630.31	44.43	13.61	-89.82	-5,212.51	-398.46	1,557.30	1,501.69	55.62	28.001	
12,200.00	7,634.00	7,564.16	7,630.87	44.99	13.61	-89.85	-5,212.51	-398.46	1,493.45	1,436.89	56.55	26.408	
12,300.00	7,634.00	7,564.72	7,631.42	45.56	13.61	-89.87	-5,212.51	-398.46	1,433.73	1,376.22	57.51	24.930	
12,400.00	7,634.00	7,565.27	7,631.98	46.13	13.61	-89.90	-5,212.51	-398.46	1,378.68	1,320.22	58.47	23.580	
12,500.00	7,634.00	7,565.83	7,632.54	46.71	13.61	-89.93	-5,212.52	-398.46	1,328.89	1,269.49	59.40	22.373	
12,600.00	7,634.00	7,566.39	7,633.09	47.30	13.61	-89.96	-5,212.52	-398.46	1,284.97	1,224.70	60.27	21.320	
12,700.00	7,634.00	7,566.94	7,633.65	47.89	13.61	-89.98	-5,212.52	-398.46	1,247.53	1,186.48	61.05	20.436	
12,800.00	7,634.00	7,567.49	7,634.20	48.48	13.61	-90.01	-5,212.53	-398.46	1,217.24	1,155.56	61.69	19.733	
12,900.00	7,634.00	7,568.05	7,634.76	49.08	13.61	-90.04	-5,212.53	-398.46	1,195.70	1,133.56	62.15	19.240	
13,000.00	7,634.00	7,568.60	7,635.31	49.68	13.61	-90.06	-5,212.53	-398.47	1,182.31	1,119.91	62.40	18.946	
13,100.00	7,634.00	7,569.16	7,635.86	50.29	13.61	-90.09	-5,212.54	-398.47	1,177.29	1,114.86	62.43	18.858	SF
13,109.28	7,634.00	7,569.21	7,635.92	50.35	13.61	-90.09	-5,212.54	-398.47	1,177.25	1,114.83	62.42	18.860	CC, ES
13,200.00	7,634.00	7,569.71	7,636.42	50.91	13.61	-90.12	-5,212.54	-398.47	1,180.74	1,118.52	62.22	18.975	
13,300.00	7,634.00	7,570.27	7,636.97	51.52	13.62	-90.14	-5,212.54	-398.47	1,192.60	1,130.80	61.80	19.298	
13,400.00	7,634.00	7,570.82	7,637.52	52.15	13.62	-90.17	-5,212.54	-398.47	1,212.61	1,151.43	61.18	19.820	
13,500.00	7,634.00	7,571.37	7,638.08	52.77	13.62	-90.20	-5,212.55	-398.47	1,240.39	1,179.98	60.41	20.532	
13,600.00	7,634.00	7,571.92	7,638.63	53.40	13.62	-90.23	-5,212.55	-398.47	1,275.43	1,215.90	59.53	21.425	
13,700.00	7,634.00	7,572.47	7,639.18	54.03	13.62	-90.25	-5,212.55	-398.47	1,317.14	1,258.56	58.58	22.486	
13,800.00	7,634.00	7,573.02	7,639.73	54.67	13.62	-90.28	-5,212.56	-398.47	1,364.92	1,307.33	57.59	23.699	
13,900.00	7,634.00	7,573.57	7,640.28	55.30	13.62	-90.31	-5,212.56	-398.47	1,418.15	1,361.54	56.61	25.051	
14,000.00	7,634.00	7,574.12	7,640.82	55.95	13.62	-90.33	-5,212.56	-398.47	1,476.24	1,420.59	55.65	26.527	
14,100.00	7,634.00	7,574.67	7,641.37	56.59	13.62	-90.36	-5,212.57	-398.48	1,538.64	1,483.91	54.73	28.112	
14,200.00	7,634.00	7,575.22	7,641.92	57.24	13.62	-90.39	-5,212.57	-398.48	1,604.86	1,550.99	53.87	29.793	
14,300.00	7,634.00	7,575.76	7,642.47	57.89	13.62	-90.41	-5,212.57	-398.48	1,674.43	1,621.36	53.06	31.557	
14,400.00	7,634.00	7,576.31	7,643.01	58.54	13.62	-90.44	-5,212.57	-398.48	1,746.95	1,694.63	52.32	33.392	
14,500.00	7,634.00	7,576.85	7,643.56	59.20	13.62	-90.47	-5,212.58	-398.48	1,822.08	1,770.44	51.63	35.288	
14,600.00	7,634.00	7,577.40	7,644.10	59.86	13.62	-90.49	-5,212.58	-398.48	1,899.50	1,848.49	51.01	37.235	
14,700.00	7,634.00	7,577.94	7,644.65	60.52	13.62	-90.52	-5,212.58	-398.48	1,978.95	1,928.50	50.45	39.226	
14,800.00	7,634.00	7,578.49	7,645.19	61.18	13.62	-90.54	-5,212.59	-398.48	2,060.19	2,010.25	49.94	41.253	
14,900.00	7,634.00	7,579.03	7,645.73	61.85	13.62	-90.57	-5,212.59	-398.48	2,143.02	2,093.53	49.48	43.310	
15,000.00	7,634.00	7,579.57	7,646.28	62.51	13.63	-90.60	-5,212.59	-398.48	2,227.25	2,178.18	49.07	45.391	
15,100.00	7,634.00	7,580.11	7,646.82	63.18	13.63	-90.62	-5,212.60	-398.48	2,312.74	2,264.05	48.70	47.492	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - GOLDENEYE 26 FEDERAL COM #2 - OH - Svy

Survey Program:		Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)					
15,200.00	7,634.00	7,580.66	7,647.36	63.86	13.63	-90.65	-5,212.60	-398.49	2,399.36	2,350.99	48.37	49.608			
15,300.00	7,634.00	7,581.20	7,647.90	64.53	13.63	-90.68	-5,212.60	-398.49	2,486.98	2,438.91	48.07	51.737			
15,400.00	7,634.00	7,581.74	7,648.44	65.21	13.63	-90.70	-5,212.60	-398.49	2,575.50	2,527.69	47.81	53.875			
15,500.00	7,634.00	7,582.28	7,648.98	65.88	13.63	-90.73	-5,212.61	-398.49	2,664.85	2,617.28	47.57	56.020			
15,600.00	7,634.00	7,582.81	7,649.52	66.56	13.63	-90.76	-5,212.61	-398.49	2,754.95	2,707.59	47.36	58.170			
15,700.00	7,634.00	7,583.35	7,650.06	67.24	13.63	-90.78	-5,212.61	-398.49	2,845.70	2,798.53	47.18	60.322			
15,800.00	7,634.00	7,583.89	7,650.60	67.93	13.63	-90.81	-5,212.62	-398.49	2,937.06	2,890.05	47.01	62.476			
15,900.00	7,634.00	7,584.43	7,651.13	68.61	13.63	-90.83	-5,212.62	-398.49	3,028.96	2,982.10	46.87	64.629			
16,000.00	7,634.00	7,584.96	7,651.67	69.30	13.63	-90.86	-5,212.62	-398.49	3,121.37	3,074.62	46.74	66.780			
16,100.00	7,634.00	7,585.50	7,652.21	69.99	13.63	-90.89	-5,212.62	-398.49	3,214.22	3,167.59	46.63	68.929			
16,200.00	7,634.00	7,586.04	7,652.74	70.68	13.63	-90.91	-5,212.63	-398.50	3,307.49	3,260.96	46.54	71.075			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Pintail 23 Fed Com 001H - OH - OH Svy

Offset Site Error: 0.00 usft

Survey Program: 100-GYRO-NS

Rule Assigned:

Offset Well Error: 0.00 usft

Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	22.54	-1.96	0.00	0.03	-135.01	-926.14	-925.90	1,309.59				
100.00	100.00	115.18	90.68	0.28	0.20	-134.99	-926.23	-926.40	1,310.05	1,309.57	0.47	2,762.113	
200.00	200.00	211.78	187.27	0.63	0.54	-134.96	-926.19	-927.62	1,310.91	1,309.73	1.17	1,117.472	
300.00	300.00	313.51	288.99	0.99	0.90	-134.91	-926.06	-929.08	1,311.83	1,309.94	1.89	694.463	
400.00	400.00	417.53	393.00	1.35	1.26	-134.85	-925.71	-930.41	1,312.50	1,309.89	2.61	502.544	
500.00	500.00	520.86	496.32	1.71	1.62	-134.80	-925.12	-931.65	1,312.95	1,309.62	3.33	394.085	
600.00	600.00	627.58	603.04	2.07	1.99	-134.74	-924.18	-932.51	1,312.89	1,308.83	4.06	323.171	
700.00	700.00	725.88	701.33	2.43	2.34	-134.69	-923.14	-933.28	1,312.71	1,307.94	4.76	275.538	
736.44	736.44	760.98	736.43	2.56	2.46	-134.67	-922.82	-933.57	1,312.69	1,307.67	5.02	261.633	
800.00	800.00	823.15	798.59	2.79	2.68	-134.64	-922.39	-934.07	1,312.74	1,307.28	5.46	240.336	
900.00	900.00	924.76	900.19	3.14	3.04	-134.59	-921.62	-934.94	1,312.82	1,306.65	6.18	212.602	
1,000.00	1,000.00	1,034.64	1,010.07	3.50	3.42	-134.56	-920.85	-935.26	1,312.55	1,305.63	6.92	189.785	
1,100.00	1,100.00	1,149.45	1,124.86	3.86	3.82	-134.56	-919.75	-934.04	1,311.10	1,303.42	7.67	170.873	
1,200.00	1,200.00	1,257.59	1,232.97	4.22	4.20	-134.58	-918.44	-931.97	1,308.89	1,300.48	8.41	155.687	
1,300.00	1,300.00	1,362.73	1,338.08	4.58	4.57	-134.62	-917.09	-929.23	1,306.13	1,297.00	9.13	143.030	
1,400.00	1,400.00	1,473.95	1,449.22	4.94	4.96	-134.71	-915.89	-925.34	1,302.89	1,293.01	9.88	131.904	
1,500.00	1,499.98	1,579.87	1,555.02	5.29	5.34	-57.68	-914.77	-920.35	1,297.86	1,287.26	10.60	122.433	
1,600.00	1,599.84	1,681.00	1,656.01	5.64	5.70	-58.14	-913.85	-915.11	1,290.77	1,279.47	11.30	114.191	
1,700.00	1,699.45	1,773.28	1,748.16	5.98	6.03	-58.72	-913.11	-910.42	1,282.06	1,270.08	11.98	107.025	
1,800.00	1,798.70	1,867.15	1,841.93	6.34	6.36	-59.46	-912.67	-906.08	1,272.20	1,259.54	12.66	100.484	
1,900.00	1,897.47	1,959.80	1,934.50	6.69	6.69	-60.33	-912.17	-902.29	1,261.07	1,247.73	13.34	94.540	
2,000.00	1,995.62	2,051.32	2,025.97	7.05	7.01	-61.34	-911.74	-899.15	1,248.94	1,234.93	14.01	89.117	
2,100.00	2,093.06	2,144.26	2,118.87	7.41	7.33	-62.51	-911.36	-896.46	1,235.89	1,221.19	14.70	84.091	
2,200.00	2,189.81	2,238.11	2,212.68	7.77	7.66	-63.68	-911.01	-894.01	1,222.14	1,206.76	15.38	79.438	
2,300.00	2,286.50	2,331.59	2,306.14	8.14	7.99	-64.76	-910.60	-891.93	1,208.94	1,192.87	16.07	75.209	
2,400.00	2,383.18	2,424.79	2,399.32	8.51	8.31	-65.85	-910.21	-889.19	1,196.46	1,179.69	16.77	71.359	
2,500.00	2,479.87	2,518.09	2,492.61	8.88	8.64	-66.96	-909.91	-888.72	1,184.72	1,167.25	17.46	67.844	
2,600.00	2,576.55	2,612.08	2,586.59	9.25	8.96	-68.08	-909.60	-887.60	1,173.67	1,155.51	18.16	64.618	
2,700.00	2,673.24	2,704.60	2,679.11	9.63	9.28	-69.19	-909.46	-886.71	1,163.41	1,144.55	18.86	61.681	
2,800.00	2,769.92	2,801.83	2,776.34	10.01	9.62	-70.38	-909.34	-885.96	1,153.78	1,134.20	19.58	58.932	
2,900.00	2,866.61	2,897.14	2,871.64	10.39	9.95	-71.55	-909.15	-885.37	1,144.68	1,124.39	20.29	56.415	
3,000.00	2,963.30	2,993.81	2,968.31	10.77	10.29	-72.74	-908.84	-885.08	1,136.16	1,115.15	21.01	54.080	
3,100.00	3,059.98	3,090.36	3,064.86	11.15	10.63	-73.92	-908.28	-885.20	1,128.16	1,106.43	21.73	51.919	
3,200.00	3,156.67	3,188.04	3,162.54	11.54	10.97	-75.11	-907.53	-885.62	1,120.64	1,098.18	22.45	49.908	
3,300.00	3,253.35	3,283.32	3,257.81	11.92	11.30	-76.27	-906.70	-886.23	1,113.63	1,090.46	23.17	48.058	
3,400.00	3,350.04	3,375.98	3,350.47	12.31	11.62	-77.42	-906.11	-886.92	1,107.39	1,083.51	23.88	46.366	
3,500.00	3,446.73	3,471.30	3,445.79	12.70	11.95	-78.61	-905.75	-887.82	1,101.97	1,077.37	24.60	44.788	
3,600.00	3,543.41	3,558.52	3,533.00	13.09	12.26	-79.70	-905.71	-888.74	1,097.43	1,072.13	25.30	43.381	
3,700.00	3,640.10	3,656.09	3,630.56	13.48	12.60	-80.94	-906.42	-890.14	1,094.24	1,068.21	26.03	42.042	
3,800.00	3,736.78	3,760.46	3,734.92	13.86	12.96	-82.27	-906.48	-891.15	1,090.80	1,064.02	26.78	40.729	
3,900.00	3,833.47	3,856.74	3,831.19	14.26	13.30	-83.52	-906.34	-891.90	1,087.68	1,060.17	27.51	39.538	
4,000.00	3,930.15	3,953.94	3,928.39	14.65	13.63	-84.78	-906.30	-892.78	1,085.24	1,057.00	28.24	38.427	
4,100.00	4,026.84	4,049.87	4,024.32	15.04	13.97	-86.03	-906.16	-893.59	1,083.25	1,054.28	28.97	37.392	
4,200.00	4,123.53	4,145.28	4,119.72	15.43	14.30	-87.27	-906.26	-894.49	1,082.08	1,052.38	29.70	36.438	
4,300.00	4,220.21	4,241.35	4,215.79	15.82	14.63	-88.53	-906.34	-895.34	1,081.44	1,051.01	30.43	35.543	
4,327.40	4,246.70	4,266.78	4,241.22	15.93	14.72	-88.86	-906.40	-895.57	1,081.40	1,050.78	30.62	35.314	
4,400.00	4,316.90	4,335.29	4,309.73	16.21	14.96	-89.76	-906.67	-896.25	1,081.63	1,050.48	31.15	34.726	
4,500.00	4,413.58	4,430.18	4,404.61	16.61	15.29	-91.00	-907.16	-897.21	1,082.55	1,050.67	31.87	33.964	
4,600.00	4,510.27	4,523.39	4,497.81	17.00	15.62	-92.22	-907.93	-898.16	1,084.32	1,051.73	32.59	33.270	
4,700.00	4,606.96	4,617.73	4,592.15	17.39	15.94	-93.45	-908.99	-899.00	1,086.93	1,053.62	33.31	32.627	
4,800.00	4,703.64	4,712.68	4,687.08	17.79	16.27	-94.71	-910.30	-899.54	1,090.30	1,056.26	34.04	32.031	
4,900.00	4,800.33	4,807.95	4,782.34	18.18	16.61	-95.97	-911.76	-899.95	1,094.38	1,059.62	34.77	31.479	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Pintail 23 Fed Com 001H - OH - OH Svy

Survey Program: 100-GYRO-NS										Rule Assigned:		Offset Site Error:	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,897.01	4,900.00	4,874.37	18.58	16.93	-97.19	-913.39	-900.14	1,099.26	1,063.78	35.48	30.985	
5,100.00	4,993.70	4,993.44	4,967.79	18.97	17.25	-98.43	-915.40	-900.08	1,105.06	1,068.86	36.19	30.531	
5,200.00	5,090.38	5,088.65	5,062.98	19.37	17.58	-99.69	-917.71	-899.92	1,111.70	1,074.79	36.92	30.112	
5,300.00	5,187.07	5,180.80	5,155.09	19.76	17.90	-100.90	-920.15	-899.70	1,119.15	1,081.52	37.63	29.742	
5,400.00	5,283.76	5,275.44	5,249.68	20.16	18.23	-102.12	-922.96	-899.58	1,127.46	1,089.11	38.35	29.399	
5,500.00	5,380.44	5,371.64	5,345.84	20.55	18.57	-103.32	-925.89	-899.83	1,136.40	1,097.32	39.08	29.080	
5,600.00	5,477.13	5,471.19	5,445.35	20.95	18.91	-104.54	-928.85	-900.29	1,145.78	1,105.95	39.82	28.771	
5,700.00	5,573.81	5,568.63	5,542.75	21.35	19.25	-105.71	-931.49	-900.66	1,155.42	1,114.86	40.56	28.487	
5,800.00	5,670.50	5,667.54	5,641.62	21.74	19.60	-106.91	-934.09	-900.62	1,165.51	1,124.21	41.30	28.219	
5,900.00	5,767.19	5,769.42	5,743.48	22.14	19.95	-108.09	-936.47	-901.17	1,175.75	1,133.69	42.06	27.954	
6,000.00	5,863.87	5,874.86	5,848.89	22.54	20.32	-109.25	-938.43	-902.76	1,185.89	1,143.06	42.84	27.685	
6,100.00	5,960.56	5,984.64	5,958.65	22.93	20.70	-110.44	-939.47	-904.38	1,195.57	1,151.94	43.63	27.402	
6,200.00	6,057.24	6,065.57	6,039.57	23.33	20.99	-111.36	-939.97	-904.41	1,205.62	1,161.33	44.28	27.224	
6,300.00	6,153.93	6,150.82	6,124.81	23.73	21.28	-112.35	-941.66	-903.57	1,217.55	1,172.59	44.95	27.084	
6,400.00	6,250.61	6,249.84	6,223.80	24.13	21.63	-113.48	-943.88	-902.49	1,230.24	1,184.54	45.70	26.921	
6,500.00	6,347.30	6,351.04	6,324.98	24.52	21.98	-114.59	-945.71	-901.82	1,242.88	1,196.42	46.45	26.756	
6,600.00	6,443.99	6,447.54	6,421.46	24.92	22.32	-115.61	-947.47	-901.80	1,255.83	1,208.65	47.18	26.617	
6,700.00	6,540.67	6,542.46	6,516.35	25.32	22.65	-116.56	-949.39	-902.27	1,269.23	1,221.33	47.90	26.497	
6,800.00	6,637.36	6,641.92	6,615.79	25.72	23.00	-117.53	-951.60	-903.06	1,283.12	1,234.47	48.65	26.376	
6,900.00	6,734.04	6,768.35	6,742.20	26.11	23.44	-118.72	-953.08	-904.50	1,296.36	1,246.83	49.53	26.172	
7,000.00	6,830.73	6,878.63	6,852.44	26.51	23.82	-119.71	-952.28	-907.18	1,307.68	1,257.35	50.33	25.982	
7,100.00	6,927.42	6,978.00	6,951.76	26.91	24.17	-120.55	-951.51	-910.47	1,319.04	1,267.96	51.07	25.826	
7,200.00	7,024.10	7,067.73	7,041.40	27.31	24.48	-121.25	-951.28	-914.37	1,330.80	1,279.03	51.77	25.704	
7,300.00	7,120.78	7,156.29	7,129.84	27.70	24.79	-98.28	-952.00	-918.94	1,340.41	1,287.95	52.46	25.549	
7,400.00	7,216.15	7,244.93	7,218.33	28.08	25.11	-71.92	-953.48	-923.94	1,336.19	1,283.06	53.14	25.147	
7,500.00	7,307.37	7,332.39	7,305.61	28.42	25.41	-59.71	-955.55	-929.03	1,317.43	1,263.65	53.77	24.500	
7,600.00	7,391.67	7,416.05	7,389.13	28.72	25.71	-55.36	-957.61	-933.56	1,284.82	1,230.45	54.36	23.634	
7,700.00	7,466.49	7,487.74	7,460.70	28.97	25.96	-55.50	-959.46	-936.97	1,240.00	1,185.14	54.86	22.603	
7,800.00	7,529.56	7,550.46	7,523.35	29.18	26.18	-59.05	-961.15	-939.55	1,184.96	1,129.66	55.29	21.430	
7,900.00	7,578.96	7,600.00	7,572.84	29.35	26.35	-65.46	-962.46	-941.33	1,121.99	1,066.34	55.65	20.162	
8,000.00	7,613.19	7,636.88	7,609.69	29.50	26.48	-74.30	-963.43	-942.54	1,053.78	997.83	55.95	18.836	
8,100.00	7,631.21	7,657.43	7,630.22	29.65	26.55	-84.33	-963.97	-943.20	983.22	927.05	56.17	17.503	
8,200.00	7,634.00	7,663.01	7,635.80	29.80	26.57	-90.15	-964.12	-943.37	913.54	857.19	56.35	16.213	
8,300.00	7,634.00	7,665.84	7,638.63	29.95	26.58	-90.39	-964.20	-943.46	849.25	792.74	56.51	15.028	
8,400.00	7,634.00	7,668.67	7,641.46	30.12	26.59	-90.64	-964.27	-943.55	792.13	735.46	56.67	13.978	
8,500.00	7,634.00	7,671.42	7,644.20	30.30	26.60	-90.89	-964.34	-943.64	741.50	684.69	56.81	13.053	
8,600.00	7,634.00	7,674.06	7,646.84	30.49	26.61	-91.14	-964.41	-943.72	698.27	641.37	56.90	12.271	
8,700.00	7,634.00	7,676.64	7,649.42	30.68	26.62	-91.38	-964.48	-943.80	665.40	608.47	56.93	11.688	
8,800.00	7,634.00	7,679.23	7,652.00	30.89	26.63	-91.61	-964.55	-943.88	646.45	589.58	56.87	11.367	
8,874.36	7,634.00	7,681.15	7,653.92	31.05	26.64	-91.78	-964.60	-943.94	642.17	585.39	56.77	11.311	CC, ES, SF
8,900.00	7,634.00	7,681.81	7,654.59	31.11	26.64	-91.84	-964.62	-943.96	642.68	585.95	56.72	11.330	
9,000.00	7,634.00	7,684.40	7,657.17	31.34	26.65	-92.07	-964.69	-944.04	654.33	597.83	56.50	11.580	
9,100.00	7,634.00	7,686.99	7,659.76	31.59	26.66	-92.30	-964.75	-944.12	680.63	624.38	56.25	12.101	
9,200.00	7,634.00	7,689.58	7,662.35	31.85	26.66	-92.53	-964.82	-944.20	719.97	663.97	55.99	12.858	
9,300.00	7,634.00	7,692.17	7,664.94	32.13	26.67	-92.76	-964.89	-944.28	770.34	714.57	55.77	13.812	
9,400.00	7,634.00	7,694.77	7,667.53	32.41	26.68	-92.99	-964.96	-944.36	829.75	774.16	55.59	14.926	
9,500.00	7,634.00	7,697.36	7,670.12	32.72	26.69	-93.22	-965.03	-944.44	896.41	840.95	55.45	16.165	
9,600.00	7,634.00	7,700.00	7,672.76	33.03	26.70	-93.46	-965.10	-944.52	968.80	913.45	55.35	17.503	
9,700.00	7,634.00	7,702.63	7,675.39	33.36	26.71	-93.69	-965.17	-944.60	1,045.75	990.47	55.28	18.917	
9,800.00	7,634.00	7,705.31	7,678.07	33.70	26.72	-93.93	-965.24	-944.68	1,126.33	1,071.09	55.24	20.391	
9,900.00	7,634.00	7,708.00	7,680.75	34.05	26.73	-94.17	-965.31	-944.76	1,209.80	1,154.58	55.21	21.912	
10,000.00	7,634.00	7,710.69	7,683.44	34.42	26.74	-94.41	-965.38	-944.84	1,295.60	1,240.40	55.20	23.471	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Pintail 23 Fed Com 001H - OH - OH Svy

Survey Program: 100-GYRO-NS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Offset Site Error:	Offset Well Error:	Warning
Reference	Vertical	Measured	Vertical	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			0.00 usft	0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)										
10,100.00	7,634.00	7,713.38	7,686.13	34.80	26.75	-94.65	-965.46	-944.92	1,383.31	1,328.11	55.20	25.060			
10,200.00	7,634.00	7,716.09	7,688.83	35.19	26.76	-94.89	-965.53	-945.01	1,472.58	1,417.38	55.21	26.673			
10,300.00	7,634.00	7,718.79	7,691.54	35.59	26.77	-95.13	-965.60	-945.09	1,563.15	1,507.93	55.22	28.305			
10,400.00	7,634.00	7,721.50	7,694.24	36.00	26.78	-95.37	-965.67	-945.17	1,654.80	1,599.55	55.25	29.954			
10,500.00	7,634.00	7,724.22	7,696.96	36.43	26.79	-95.61	-965.75	-945.25	1,747.36	1,692.09	55.27	31.615			
10,600.00	7,634.00	7,726.94	7,699.68	36.86	26.80	-95.86	-965.82	-945.34	1,840.70	1,785.40	55.30	33.286			
10,700.00	7,634.00	7,729.67	7,702.40	37.30	26.81	-96.10	-965.89	-945.42	1,934.70	1,879.36	55.33	34.966			
10,800.00	7,634.00	7,732.40	7,705.13	37.76	26.81	-96.34	-965.97	-945.50	2,029.26	1,973.90	55.36	36.653			
10,900.00	7,634.00	7,735.14	7,707.87	38.22	26.82	-96.58	-966.04	-945.59	2,124.33	2,068.93	55.40	38.345			
11,000.00	7,634.00	7,737.88	7,710.61	38.70	26.83	-96.82	-966.11	-945.67	2,219.82	2,164.38	55.44	40.042			
11,100.00	7,634.00	7,740.63	7,713.36	39.18	26.84	-97.07	-966.19	-945.75	2,315.69	2,260.21	55.48	41.741			
11,200.00	7,634.00	7,743.39	7,716.11	39.67	26.85	-97.31	-966.26	-945.84	2,411.89	2,356.37	55.52	43.444			
11,300.00	7,634.00	7,746.15	7,718.87	40.17	26.86	-97.56	-966.34	-945.92	2,508.39	2,452.83	55.56	45.148			
11,400.00	7,634.00	7,748.91	7,721.63	40.67	26.87	-97.80	-966.41	-946.01	2,605.15	2,549.54	55.60	46.853			
11,500.00	7,634.00	7,751.68	7,724.40	41.19	26.88	-98.04	-966.48	-946.09	2,702.14	2,646.49	55.65	48.559			
11,600.00	7,634.00	7,754.46	7,727.17	41.71	26.89	-98.29	-966.56	-946.18	2,799.34	2,743.65	55.69	50.265			
11,700.00	7,634.00	7,757.24	7,729.95	42.24	26.90	-98.53	-966.64	-946.26	2,896.73	2,840.99	55.74	51.971			
11,800.00	7,634.00	7,760.02	7,732.73	42.78	26.91	-98.78	-966.71	-946.35	2,994.29	2,938.50	55.78	53.676			
11,900.00	7,634.00	7,762.81	7,735.52	43.32	26.92	-99.02	-966.79	-946.43	3,092.00	3,036.16	55.83	55.380			
12,000.00	7,634.00	7,765.61	7,738.32	43.87	26.93	-99.27	-966.86	-946.52	3,189.85	3,133.97	55.88	57.082			
12,100.00	7,634.00	7,768.41	7,741.12	44.43	26.94	-99.51	-966.94	-946.61	3,287.83	3,231.90	55.93	58.783			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Pintail 23 Fed Com 001H - ST01 - ST01 Svy

Survey Program: 100-GYRO-NS, 10281-MWD OWSG Rev5										Rule Assigned:				Offset Site Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	22.54	-1.96	0.00	0.03	-135.01	-926.14	-925.90	1,309.59						
100.00	100.00	115.18	90.68	0.28	0.20	-134.99	-926.23	-926.40	1,310.05	1,309.57	0.47	2,762.113			
200.00	200.00	211.78	187.27	0.63	0.54	-134.96	-926.19	-927.62	1,310.91	1,309.73	1.17	1,117.472			
300.00	300.00	313.51	288.99	0.99	0.90	-134.91	-926.06	-929.08	1,311.83	1,309.94	1.89	694.463			
400.00	400.00	417.53	393.00	1.35	1.26	-134.85	-925.71	-930.41	1,312.50	1,309.89	2.61	502.544			
500.00	500.00	520.86	496.32	1.71	1.62	-134.80	-925.12	-931.65	1,312.95	1,309.62	3.33	394.085			
600.00	600.00	627.58	603.04	2.07	1.99	-134.74	-924.18	-932.51	1,312.89	1,308.83	4.06	323.171			
700.00	700.00	725.88	701.33	2.43	2.34	-134.69	-923.14	-933.28	1,312.71	1,307.94	4.76	275.538			
736.44	736.44	760.98	736.43	2.56	2.46	-134.67	-922.82	-933.57	1,312.69	1,307.67	5.02	261.633			
800.00	800.00	823.15	798.59	2.79	2.68	-134.64	-922.39	-934.07	1,312.74	1,307.28	5.46	240.336			
900.00	900.00	924.76	900.19	3.14	3.04	-134.59	-921.62	-934.94	1,312.82	1,306.65	6.18	212.602			
1,000.00	1,000.00	1,034.64	1,010.07	3.50	3.42	-134.56	-920.85	-935.26	1,312.55	1,305.63	6.92	189.785			
1,100.00	1,100.00	1,149.45	1,124.86	3.86	3.82	-134.56	-919.75	-934.04	1,311.10	1,303.42	7.67	170.873			
1,200.00	1,200.00	1,257.59	1,232.97	4.22	4.20	-134.58	-918.44	-931.97	1,308.89	1,300.48	8.41	155.687			
1,300.00	1,300.00	1,362.73	1,338.08	4.58	4.57	-134.62	-917.09	-929.23	1,306.13	1,297.00	9.13	143.030			
1,400.00	1,400.00	1,473.95	1,449.22	4.94	4.96	-134.71	-915.89	-925.34	1,302.89	1,293.01	9.88	131.904			
1,500.00	1,499.98	1,579.87	1,555.02	5.29	5.34	-57.68	-914.77	-920.35	1,297.86	1,287.26	10.60	122.433			
1,600.00	1,599.84	1,681.00	1,656.01	5.64	5.70	-58.14	-913.85	-915.11	1,290.77	1,279.47	11.30	114.191			
1,700.00	1,699.45	1,773.28	1,748.16	5.98	6.03	-58.72	-913.11	-910.42	1,282.06	1,270.08	11.98	107.025			
1,800.00	1,798.70	1,867.15	1,841.93	6.34	6.36	-59.46	-912.67	-906.08	1,272.20	1,259.54	12.66	100.484			
1,900.00	1,897.47	1,959.80	1,934.50	6.69	6.69	-60.33	-912.17	-902.29	1,261.07	1,247.73	13.34	94.540			
2,000.00	1,995.62	2,051.32	2,025.97	7.05	7.01	-61.34	-911.74	-899.15	1,248.94	1,234.93	14.01	89.117			
2,100.00	2,093.06	2,144.26	2,118.87	7.41	7.33	-62.51	-911.36	-896.46	1,235.89	1,221.19	14.70	84.091			
2,200.00	2,189.81	2,238.11	2,212.68	7.77	7.66	-63.68	-911.01	-894.01	1,222.14	1,206.76	15.38	79.438			
2,300.00	2,286.50	2,331.59	2,306.14	8.14	7.99	-64.76	-910.60	-891.93	1,208.94	1,192.87	16.07	75.209			
2,400.00	2,383.18	2,424.79	2,399.32	8.51	8.31	-65.85	-910.21	-889.19	1,196.46	1,179.69	16.77	71.359			
2,500.00	2,479.87	2,518.09	2,492.61	8.88	8.64	-66.96	-909.91	-888.72	1,184.72	1,167.25	17.46	67.844			
2,600.00	2,576.55	2,612.08	2,586.59	9.25	8.96	-68.08	-909.60	-887.60	1,173.67	1,155.51	18.16	64.618			
2,700.00	2,673.24	2,704.60	2,679.11	9.63	9.28	-69.19	-909.46	-886.71	1,163.41	1,144.55	18.86	61.681			
2,800.00	2,769.92	2,801.83	2,776.34	10.01	9.62	-70.38	-909.34	-885.96	1,153.78	1,134.20	19.58	58.932			
2,900.00	2,866.61	2,897.14	2,871.64	10.39	9.95	-71.55	-909.15	-885.37	1,144.68	1,124.39	20.29	56.415			
3,000.00	2,963.30	2,993.81	2,968.31	10.77	10.29	-72.74	-908.84	-885.08	1,136.16	1,115.15	21.01	54.080			
3,100.00	3,059.98	3,090.36	3,064.86	11.15	10.63	-73.92	-908.28	-885.20	1,128.16	1,106.43	21.73	51.919			
3,200.00	3,156.67	3,188.04	3,162.54	11.54	10.97	-75.11	-907.53	-885.62	1,120.64	1,098.18	22.45	49.908			
3,300.00	3,253.35	3,283.32	3,257.81	11.92	11.30	-76.27	-906.70	-886.23	1,113.63	1,090.46	23.17	48.058			
3,400.00	3,350.04	3,375.98	3,350.47	12.31	11.62	-77.42	-906.11	-886.92	1,107.39	1,083.51	23.88	46.366			
3,500.00	3,446.73	3,471.30	3,445.79	12.70	11.95	-78.61	-905.75	-887.82	1,101.97	1,077.37	24.60	44.788			
3,600.00	3,543.41	3,558.52	3,533.00	13.09	12.26	-79.70	-905.71	-888.74	1,097.43	1,072.13	25.30	43.381			
3,700.00	3,640.10	3,656.09	3,630.56	13.48	12.60	-80.94	-906.42	-890.14	1,094.24	1,068.21	26.03	42.042			
3,800.00	3,736.78	3,760.46	3,734.92	13.86	12.96	-82.27	-906.48	-891.15	1,090.80	1,064.02	26.78	40.729			
3,900.00	3,833.47	3,856.74	3,831.19	14.26	13.30	-83.52	-906.34	-891.90	1,087.68	1,060.17	27.51	39.538			
4,000.00	3,930.15	3,953.94	3,928.39	14.65	13.63	-84.78	-906.30	-892.78	1,085.24	1,057.00	28.24	38.427			
4,100.00	4,026.84	4,049.87	4,024.32	15.04	13.97	-86.03	-906.16	-893.59	1,083.25	1,054.28	28.97	37.392			
4,200.00	4,123.53	4,145.28	4,119.72	15.43	14.30	-87.27	-906.26	-894.49	1,082.08	1,052.38	29.70	36.438			
4,300.00	4,220.21	4,241.35	4,215.79	15.82	14.63	-88.53	-906.34	-895.34	1,081.44	1,051.01	30.43	35.543			
4,327.40	4,246.70	4,266.78	4,241.22	15.93	14.72	-88.86	-906.40	-895.57	1,081.40	1,050.78	30.62	35.314			
4,400.00	4,316.90	4,335.29	4,309.73	16.21	14.96	-89.76	-906.67	-896.25	1,081.63	1,050.48	31.15	34.726			
4,500.00	4,413.58	4,430.18	4,404.61	16.61	15.29	-91.00	-907.16	-897.21	1,082.55	1,050.67	31.87	33.964			
4,600.00	4,510.27	4,523.39	4,497.81	17.00	15.62	-92.22	-907.93	-898.16	1,084.32	1,051.73	32.59	33.270			
4,700.00	4,606.96	4,617.73	4,592.15	17.39	15.94	-93.45	-908.99	-899.00	1,086.93	1,053.62	33.31	32.627			
4,800.00	4,703.64	4,712.68	4,687.08	17.79	16.27	-94.71	-910.30	-899.54	1,090.30	1,056.26	34.04	32.031			
4,900.00	4,800.33	4,807.95	4,782.34	18.18	16.61	-95.97	-911.76	-899.95	1,094.38	1,059.62	34.77	31.479			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Pintail 23 Fed Com 001H - ST01 - ST01 Svy, Survey Program: 100-GYRO-NS, 10281-MWD OWSG Rev5, Rule Assigned: Minimum Separation, Separation Factor, Warning, Measured Depth (usft), Vertical Depth (usft), Measured Depth (usft), Vertical Depth (usft), Reference (usft), Offset (usft), Highside Toolface (°), Offset Wellbore Centre (+N/-S (usft), +E/-W (usft)), Distance (Between Centres (usft), Between Ellipses (usft)), Minimum Separation (usft), Separation Factor, Warning

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Pintail 23 Fed Com 001H - ST01 - ST01 Svy

Survey Program:		Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)					
10,100.00	7,634.00	7,713.38	7,686.13	34.80	26.75	-94.65	-965.46	-944.92	1,383.31	1,328.11	55.20	25.060			
10,200.00	7,634.00	7,716.09	7,688.83	35.19	26.76	-94.89	-965.53	-945.01	1,472.58	1,417.38	55.21	26.673			
10,300.00	7,634.00	7,718.79	7,691.54	35.59	26.77	-95.13	-965.60	-945.09	1,563.15	1,507.93	55.22	28.305			
10,400.00	7,634.00	7,721.50	7,694.24	36.00	26.78	-95.37	-965.67	-945.17	1,654.80	1,599.55	55.25	29.954			
10,500.00	7,634.00	7,724.22	7,696.96	36.43	26.79	-95.61	-965.75	-945.25	1,747.36	1,692.09	55.27	31.615			
10,600.00	7,634.00	7,726.94	7,699.68	36.86	26.80	-95.86	-965.82	-945.34	1,840.70	1,785.40	55.30	33.286			
10,700.00	7,634.00	7,729.67	7,702.40	37.30	26.81	-96.10	-965.89	-945.42	1,934.70	1,879.36	55.33	34.966			
10,800.00	7,634.00	7,732.40	7,705.13	37.76	26.81	-96.34	-965.97	-945.50	2,029.26	1,973.90	55.36	36.653			
10,900.00	7,634.00	7,735.14	7,707.87	38.22	26.82	-96.58	-966.04	-945.59	2,124.33	2,068.93	55.40	38.345			
11,000.00	7,634.00	7,737.88	7,710.61	38.70	26.83	-96.82	-966.11	-945.67	2,219.82	2,164.38	55.44	40.042			
11,100.00	7,634.00	7,740.63	7,713.36	39.18	26.84	-97.07	-966.19	-945.75	2,315.69	2,260.21	55.48	41.741			
11,200.00	7,634.00	7,743.39	7,716.11	39.67	26.85	-97.31	-966.26	-945.84	2,411.89	2,356.37	55.52	43.444			
11,300.00	7,634.00	7,746.15	7,718.87	40.17	26.86	-97.56	-966.34	-945.92	2,508.39	2,452.83	55.56	45.148			
11,400.00	7,634.00	7,748.91	7,721.63	40.67	26.87	-97.80	-966.41	-946.01	2,605.15	2,549.54	55.60	46.853			
11,500.00	7,634.00	7,751.68	7,724.40	41.19	26.88	-98.04	-966.48	-946.09	2,702.14	2,646.49	55.65	48.559			
11,600.00	7,634.00	7,754.46	7,727.17	41.71	26.89	-98.29	-966.56	-946.18	2,799.34	2,743.65	55.69	50.265			
11,700.00	7,634.00	7,757.24	7,729.95	42.24	26.90	-98.53	-966.64	-946.26	2,896.73	2,840.99	55.74	51.971			
11,800.00	7,634.00	7,760.02	7,732.73	42.78	26.91	-98.78	-966.71	-946.35	2,994.29	2,938.50	55.78	53.676			
11,900.00	7,634.00	7,762.81	7,735.52	43.32	26.92	-99.02	-966.79	-946.43	3,092.00	3,036.16	55.83	55.380			
12,000.00	7,634.00	7,765.61	7,738.32	43.87	26.93	-99.27	-966.86	-946.52	3,189.85	3,133.97	55.88	57.082			
12,100.00	7,634.00	7,768.41	7,741.12	44.43	26.94	-99.51	-966.94	-946.61	3,287.83	3,231.90	55.93	58.783			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Wigeon 23 Fed Com #2 - OH - Cone

Table with columns: Survey Program, Reference, Measured Vertical, Offset Vertical, Semi Major Axis Reference, Semi Major Axis Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Between Ellipses), Minimum Separation, Separation Factor, Warning, Offset Site Error, Offset Well Error. Rows show depth intervals from 0.00 to 5,100.00 usft.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26 Federal Com - Wigeon 23 Fed Com #2 - OH - Cone

Survey Program:		Reference		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,090.38	5,062.88	5,090.38	19.37	153.75	-172.01	-899.88	2,077.74	3,129.52	2,956.79	172.73	18.118	
5,300.00	5,187.07	5,159.57	5,187.07	19.76	156.69	-172.07	-899.88	2,077.74	3,154.82	2,978.77	176.05	17.920	
5,400.00	5,283.76	5,256.26	5,283.76	20.16	159.63	-172.14	-899.88	2,077.74	3,180.13	3,000.75	179.38	17.729	
5,500.00	5,380.44	5,352.94	5,380.44	20.55	162.56	-172.20	-899.88	2,077.74	3,205.44	3,022.74	182.70	17.545	
5,600.00	5,477.13	5,449.63	5,477.13	20.95	165.50	-172.26	-899.88	2,077.74	3,230.75	3,044.73	186.02	17.368	
5,700.00	5,573.81	5,546.31	5,573.81	21.35	168.43	-172.32	-899.88	2,077.74	3,256.06	3,066.72	189.34	17.197	
5,800.00	5,670.50	5,643.00	5,670.50	21.74	171.37	-172.38	-899.88	2,077.74	3,281.38	3,088.72	192.67	17.031	
5,900.00	5,767.19	5,739.69	5,767.19	22.14	174.31	-172.44	-899.88	2,077.74	3,306.70	3,110.72	195.99	16.872	
6,000.00	5,863.87	5,836.37	5,863.87	22.54	177.24	-172.50	-899.88	2,077.74	3,332.03	3,132.72	199.31	16.718	SF

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Bonnie 35 Fed Com 004H - OH - Svy														Offset Site Error:	0.00 usft
Survey Program: 23-MWD+HRGM										Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
17,700.00	7,634.00	11,991.00	7,376.53	81.19	71.29	-85.49	-10,471.56	1,636.36	3,336.30	3,185.38	150.92	22.107			
17,800.00	7,634.00	11,991.00	7,376.53	81.90	71.29	-85.49	-10,471.56	1,636.36	3,318.36	3,166.46	151.90	21.845			
17,900.00	7,634.00	11,991.00	7,376.53	82.61	71.29	-85.49	-10,471.56	1,636.36	3,303.35	3,150.57	152.78	21.621			
18,000.00	7,634.00	11,991.00	7,376.53	83.32	71.29	-85.49	-10,471.56	1,636.36	3,291.32	3,137.76	153.56	21.434			
18,100.00	7,634.00	11,991.00	7,376.53	84.03	71.29	-85.49	-10,471.56	1,636.36	3,282.38	3,128.16	154.22	21.284			
18,200.00	7,634.00	11,991.00	7,376.53	84.74	71.29	-85.49	-10,471.56	1,636.36	3,276.62	3,121.86	154.76	21.172			
18,300.00	7,634.00	11,991.00	7,376.53	85.46	71.29	-85.49	-10,471.56	1,636.36	3,273.91	3,118.73	155.18	21.097			
18,338.85	7,634.00	11,991.00	7,376.53	85.74	71.29	-85.49	-10,471.56	1,636.36	3,273.68	3,118.36	155.31	21.078			
18,400.00	7,634.00	11,990.35	7,376.53	86.17	71.28	-85.49	-10,472.20	1,636.36	3,274.25	3,118.77	155.47	21.060			
18,500.00	7,634.00	11,895.36	7,376.56	86.89	70.03	-85.49	-10,567.19	1,636.97	3,276.12	3,121.21	154.91	21.149			
18,600.00	7,634.00	11,820.58	7,375.26	87.60	69.04	-85.47	-10,641.96	1,637.66	3,278.45	3,123.94	154.51	21.219			
18,700.00	7,634.00	11,748.28	7,374.04	88.32	68.09	-85.45	-10,714.24	1,639.02	3,281.67	3,127.55	154.12	21.293			
18,800.00	7,634.00	11,665.22	7,373.31	89.04	67.00	-85.45	-10,797.27	1,641.18	3,285.58	3,131.93	153.65	21.384			
18,900.00	7,634.00	11,559.76	7,372.65	89.76	65.63	-85.44	-10,902.69	1,644.14	3,289.66	3,136.65	153.02	21.499			
19,000.00	7,634.00	11,431.73	7,373.48	90.48	63.97	-85.46	-11,030.67	1,647.21	3,293.26	3,141.04	152.23	21.634			
19,100.00	7,634.00	11,294.47	7,378.35	91.20	62.19	-85.55	-11,167.81	1,649.36	3,295.78	3,144.40	151.37	21.772			
19,200.00	7,634.00	11,186.90	7,380.01	91.92	60.81	-85.58	-11,275.37	1,650.14	3,297.62	3,146.87	150.75	21.874			
19,300.00	7,634.00	11,083.90	7,382.88	92.64	59.50	-85.63	-11,378.33	1,650.83	3,299.32	3,149.14	150.18	21.969			
19,400.00	7,634.00	10,974.49	7,386.25	93.37	58.11	-85.70	-11,487.68	1,651.46	3,300.91	3,151.34	149.56	22.070			
19,500.00	7,634.00	10,873.87	7,384.96	94.09	56.84	-85.67	-11,588.29	1,651.36	3,302.14	3,153.13	149.01	22.160			
19,600.00	7,634.00	10,702.64	7,383.27	94.81	54.70	-85.65	-11,759.49	1,650.35	3,303.19	3,155.31	147.88	22.337			
19,700.00	7,634.00	10,548.00	7,385.76	95.54	52.79	-85.69	-11,914.04	1,646.02	3,301.49	3,154.61	146.89	22.477			
19,800.00	7,634.00	10,463.25	7,387.44	96.26	51.75	-85.71	-11,998.73	1,643.20	3,299.26	3,152.74	146.53	22.517			
19,900.00	7,634.00	10,380.05	7,388.33	96.99	50.74	-85.73	-12,081.89	1,640.77	3,297.52	3,151.34	146.18	22.557			
20,000.00	7,634.00	10,294.38	7,388.66	97.71	49.71	-85.73	-12,167.53	1,638.65	3,296.26	3,150.44	145.82	22.604			
20,100.00	7,634.00	10,195.75	7,388.10	98.44	48.53	-85.72	-12,266.12	1,636.43	3,295.30	3,149.94	145.36	22.670			
20,200.00	7,634.00	10,090.39	7,389.05	99.17	47.29	-85.74	-12,371.45	1,634.04	3,294.21	3,149.35	144.86	22.740			
20,300.00	7,634.00	9,962.32	7,390.39	99.89	45.80	-85.76	-12,499.46	1,630.49	3,292.61	3,148.42	144.19	22.835			
20,400.00	7,634.00	9,862.84	7,391.17	100.62	44.66	-85.77	-12,598.89	1,627.19	3,290.48	3,146.71	143.78	22.886			
20,500.00	7,634.00	9,786.60	7,392.08	101.35	43.80	-85.78	-12,675.09	1,625.06	3,288.85	3,145.29	143.56	22.909			
20,600.00	7,634.00	9,698.00	7,394.57	102.08	42.81	-85.82	-12,763.63	1,623.12	3,287.70	3,144.44	143.26	22.950			
20,700.00	7,634.00	9,610.13	7,396.56	102.81	41.85	-85.86	-12,851.47	1,621.47	3,286.91	3,143.93	142.98	22.989			
20,766.86	7,634.00	9,562.03	7,398.86	103.30	41.33	-85.86	-12,899.56	1,620.74	3,286.71	3,143.84	142.87	23.005			
20,800.00	7,634.00	9,538.84	7,397.05	103.54	41.09	-85.87	-12,922.75	1,620.50	3,286.76	3,143.93	142.82	23.013			
20,900.00	7,634.00	9,452.15	7,398.04	104.27	40.17	-85.88	-13,009.43	1,620.04	3,287.37	3,144.80	142.57	23.057			
21,000.00	7,634.00	9,320.00	7,398.91	105.00	38.81	-85.90	-13,141.56	1,618.77	3,287.61	3,145.56	142.05	23.144			
21,066.97	7,634.00	9,261.90	7,398.88	105.49	38.23	-85.90	-13,199.66	1,617.86	3,287.41	3,145.50	141.92	23.165			
21,100.00	7,634.00	9,237.63	7,399.09	105.74	37.99	-85.90	-13,223.92	1,617.61	3,287.46	3,145.58	141.88	23.171			
21,200.00	7,634.00	9,151.01	7,400.88	106.47	37.14	-85.93	-13,310.53	1,617.10	3,287.96	3,146.26	141.70	23.204			
21,300.00	7,634.00	9,021.51	7,405.32	107.20	35.92	-86.01	-13,439.95	1,616.09	3,288.19	3,146.88	141.31	23.270			
21,336.71	7,634.00	8,992.04	7,406.22	107.47	35.65	-86.03	-13,469.39	1,615.76	3,288.14	3,146.87	141.28	23.274			
21,400.00	7,634.00	8,943.00	7,407.35	107.93	35.21	-86.05	-13,518.42	1,615.31	3,288.27	3,147.04	141.23	23.283			
21,500.00	7,634.00	8,863.07	7,409.23	108.67	34.51	-86.08	-13,598.33	1,615.01	3,288.98	3,147.81	141.17	23.298			
21,600.00	7,634.00	8,709.00	6,985.73	109.40	24.58	-77.35	-15,100.66	1,202.52	3,262.23	3,137.05	125.18	26.060			
21,700.00	7,634.00	7,035.89	6,973.44	110.14	24.54	-77.10	-15,102.94	1,198.56	3,221.32	3,094.71	126.61	25.444			
21,800.00	7,634.00	7,024.00	6,962.22	110.87	24.50	-76.87	-15,104.89	1,195.15	3,183.07	3,055.06	128.01	24.865			
21,900.00	7,634.00	7,024.00	6,962.22	111.61	24.50	-76.87	-15,104.89	1,195.15	3,147.46	3,017.96	129.50	24.305			
22,000.00	7,634.00	7,024.00	6,962.22	112.34	24.50	-76.87	-15,104.89	1,195.15	3,114.65	2,983.72	130.93	23.789			
22,100.00	7,634.00	7,024.00	6,962.22	113.08	24.50	-76.87	-15,104.89	1,195.15	3,084.73	2,952.42	132.31	23.315			
22,200.00	7,634.00	7,024.00	6,962.22	113.81	24.50	-76.87	-15,104.89	1,195.15	3,057.79	2,924.18	133.62	22.885			
22,300.00	7,634.00	7,010.83	6,949.71	114.55	24.45	-76.62	-15,106.92	1,191.57	3,033.80	2,899.07	134.73	22.517			
22,400.00	7,634.00	7,007.01	6,946.07	115.29	24.44	-76.55	-15,107.49	1,190.57	3,012.97	2,877.12	135.85	22.178			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Bonnie 35 Fed Com 004H - OH - Svy

Survey Program: 23-MWD+HRGM		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Reference Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,500.00	7,634.00	6,992.00	6,931.70	116.02	24.39	-76.26	-15,109.61	1,186.79	2,995.41	2,858.62	136.79	21.898	
22,600.00	7,634.00	6,992.00	6,931.70	116.76	24.39	-76.26	-15,109.61	1,186.79	2,980.95	2,843.19	137.76	21.639	
22,700.00	7,634.00	6,992.00	6,931.70	117.50	24.39	-76.26	-15,109.61	1,186.79	2,969.79	2,831.16	138.63	21.423	
22,800.00	7,634.00	6,992.00	6,931.70	118.24	24.39	-76.26	-15,109.61	1,186.79	2,961.96	2,822.58	139.38	21.250	
22,900.00	7,634.00	6,992.00	6,931.70	118.98	24.39	-76.26	-15,109.61	1,186.79	2,957.50	2,817.47	140.03	21.121	
22,982.14	7,634.00	6,992.00	6,931.70	119.58	24.39	-76.26	-15,109.61	1,186.79	2,956.35	2,815.88	140.47	21.046	CC
23,000.00	7,634.00	6,992.00	6,931.70	119.72	24.39	-76.26	-15,109.61	1,186.79	2,956.41	2,815.85	140.56	21.033	ES
23,100.00	7,634.00	6,992.00	6,931.70	120.46	24.39	-76.26	-15,109.61	1,186.79	2,958.70	2,817.73	140.97	20.988	
23,200.00	7,634.00	6,992.00	6,931.70	121.19	24.39	-76.26	-15,109.61	1,186.79	2,964.37	2,823.11	141.26	20.985	SF
23,235.54	7,634.00	6,992.00	6,931.70	121.46	24.39	-76.26	-15,109.61	1,186.79	2,967.19	2,825.86	141.33	20.994	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**Total Directional
Anticollision Report**



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - OLD - Wigeon 23-35 Federal Com 10H - OH - Prelim A

Survey Program: 0-MWD+IFR1+MS
Reference: Offset
Rule Assigned:
Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	8.50	0.00	0.00	86.93	89.87	1,673.04	1,675.47				
100.00	100.00	91.50	100.00	0.28	0.24	86.93	89.87	1,673.04	1,675.45	1,674.94	0.52	3,250.371	
200.00	200.00	191.50	200.00	0.63	0.59	86.93	89.87	1,673.04	1,675.45	1,674.23	1.22	1,368.631	
300.00	300.00	291.50	300.00	0.99	0.95	86.93	89.87	1,673.04	1,675.45	1,673.51	1.94	863.135	
400.00	400.00	391.50	400.00	1.35	1.31	86.93	89.87	1,673.04	1,675.45	1,672.79	2.66	630.327	
500.00	500.00	491.50	500.00	1.71	1.67	86.93	89.87	1,673.04	1,675.45	1,672.08	3.38	496.429	
600.00	600.00	591.50	600.00	2.07	2.02	86.93	89.87	1,673.04	1,675.45	1,671.36	4.09	409.450	
700.00	700.00	691.50	700.00	2.43	2.38	86.93	89.87	1,673.04	1,675.45	1,670.64	4.81	348.407	
800.00	800.00	791.50	800.00	2.79	2.74	86.93	89.87	1,673.04	1,675.45	1,669.93	5.53	303.203	
900.00	900.00	891.50	900.00	3.14	3.10	86.93	89.87	1,673.04	1,675.45	1,669.21	6.24	268.382	
1,000.00	1,000.00	991.50	1,000.00	3.50	3.46	86.93	89.87	1,673.04	1,675.45	1,668.49	6.96	240.735	
1,100.00	1,100.00	1,091.50	1,100.00	3.86	3.82	86.93	89.87	1,673.04	1,675.45	1,667.78	7.68	218.252	
1,200.00	1,200.00	1,191.50	1,200.00	4.22	4.17	86.93	89.87	1,673.04	1,675.45	1,667.06	8.39	199.610	CC
1,300.00	1,300.00	1,283.56	1,292.05	4.58	4.50	86.88	91.08	1,673.17	1,675.67	1,666.59	9.08	184.515	ES
1,400.00	1,400.00	1,374.72	1,383.11	4.94	4.83	86.75	95.16	1,673.62	1,676.41	1,666.64	9.76	171.677	
1,500.00	1,499.98	1,465.52	1,473.64	5.29	5.16	163.80	102.09	1,674.38	1,679.37	1,668.93	10.44	160.873	
1,600.00	1,599.84	1,555.91	1,563.50	5.64	5.48	163.48	111.82	1,675.44	1,686.25	1,675.15	11.11	151.832	
1,700.00	1,699.45	1,654.89	1,661.72	5.98	5.84	163.09	123.95	1,676.77	1,696.78	1,684.98	11.81	143.728	
1,800.00	1,798.70	1,753.55	1,759.63	6.34	6.19	162.73	136.03	1,678.09	1,710.67	1,698.17	12.51	136.795	
1,900.00	1,897.47	1,851.78	1,857.11	6.69	6.54	162.37	148.07	1,679.41	1,727.90	1,714.69	13.20	130.852	
2,000.00	1,995.62	1,949.45	1,954.04	7.05	6.89	162.04	160.04	1,680.72	1,748.41	1,734.51	13.90	125.754	
2,100.00	2,093.06	2,046.45	2,050.30	7.41	7.24	161.72	171.92	1,682.02	1,772.18	1,757.58	14.60	121.378	
2,200.00	2,189.81	2,142.82	2,145.93	7.77	7.59	161.52	183.73	1,683.31	1,798.59	1,783.29	15.30	117.584	
2,300.00	2,286.50	2,239.12	2,241.50	8.14	7.94	161.39	195.53	1,684.60	1,825.25	1,809.26	15.99	114.147	
2,400.00	2,383.18	2,335.43	2,337.07	8.51	8.29	161.27	207.33	1,685.89	1,851.93	1,835.24	16.69	110.973	
2,500.00	2,479.87	2,431.73	2,432.64	8.88	8.63	161.15	219.13	1,687.18	1,878.61	1,861.22	17.39	108.034	
2,600.00	2,576.55	2,528.03	2,528.20	9.25	8.98	161.04	230.93	1,688.47	1,905.30	1,887.21	18.09	105.307	
2,700.00	2,673.24	2,624.33	2,623.77	9.63	9.33	160.93	242.72	1,689.76	1,931.99	1,913.19	18.80	102.770	
2,800.00	2,769.92	2,720.64	2,719.34	10.01	9.68	160.82	254.52	1,691.06	1,958.70	1,939.19	19.51	100.406	
2,900.00	2,866.61	2,816.94	2,814.91	10.39	10.03	160.71	266.32	1,692.35	1,985.40	1,965.19	20.22	98.198	
3,000.00	2,963.30	2,913.24	2,910.48	10.77	10.38	160.61	278.12	1,693.64	2,012.12	1,991.19	20.93	96.132	
3,100.00	3,059.98	3,009.54	3,006.05	11.15	10.73	160.51	289.92	1,694.93	2,038.84	2,017.20	21.64	94.195	
3,200.00	3,156.67	3,105.85	3,101.61	11.54	11.08	160.41	301.72	1,696.22	2,065.57	2,043.21	22.36	92.375	
3,300.00	3,253.35	3,202.15	3,197.18	11.92	11.43	160.31	313.52	1,697.51	2,092.30	2,069.22	23.08	90.664	
3,400.00	3,350.04	3,301.87	3,296.16	12.31	11.79	160.22	325.36	1,698.84	2,119.02	2,095.21	23.81	88.995	
3,500.00	3,446.73	3,417.24	3,410.98	12.70	12.21	160.20	336.66	1,700.04	2,145.18	2,120.57	24.61	87.163	
3,600.00	3,543.41	3,533.04	3,526.59	13.09	12.63	160.30	343.07	1,700.74	2,170.48	2,145.07	25.41	85.413	
3,700.00	3,640.10	3,646.56	3,640.10	13.48	13.03	160.51	344.87	1,700.94	2,194.96	2,168.75	26.20	83.775	
3,800.00	3,736.78	3,743.25	3,736.78	13.86	13.37	160.73	344.87	1,700.94	2,219.13	2,192.21	26.92	82.437	
3,900.00	3,833.47	3,839.94	3,833.47	14.26	13.72	160.95	344.87	1,700.94	2,243.33	2,215.69	27.64	81.168	
4,000.00	3,930.15	3,936.62	3,930.15	14.65	14.06	161.16	344.87	1,700.94	2,267.56	2,239.20	28.36	79.961	
4,100.00	4,026.84	4,033.31	4,026.84	15.04	14.40	161.36	344.87	1,700.94	2,291.82	2,262.74	29.08	78.813	
4,200.00	4,123.53	4,129.99	4,123.53	15.43	14.74	161.56	344.87	1,700.94	2,316.11	2,286.31	29.80	77.719	
4,300.00	4,220.21	4,226.68	4,220.21	15.82	15.09	161.76	344.87	1,700.94	2,340.42	2,309.90	30.52	76.676	
4,400.00	4,316.90	4,323.37	4,316.90	16.21	15.43	161.95	344.87	1,700.94	2,364.76	2,333.51	31.25	75.681	
4,500.00	4,413.58	4,420.05	4,413.58	16.61	15.78	162.14	344.87	1,700.94	2,389.12	2,357.15	31.97	74.730	
4,600.00	4,510.27	4,516.74	4,510.27	17.00	16.12	162.33	344.87	1,700.94	2,413.51	2,380.82	32.69	73.820	
4,700.00	4,606.96	4,613.42	4,606.96	17.39	16.46	162.51	344.87	1,700.94	2,437.92	2,404.50	33.42	72.949	
4,800.00	4,703.64	4,710.11	4,703.64	17.79	16.81	162.69	344.87	1,700.94	2,462.36	2,428.21	34.14	72.115	
4,900.00	4,800.33	4,806.79	4,800.33	18.18	17.15	162.86	344.87	1,700.94	2,486.81	2,451.94	34.87	71.315	
5,000.00	4,897.01	4,903.48	4,897.01	18.58	17.49	163.03	344.87	1,700.94	2,511.29	2,475.69	35.60	70.548	
5,100.00	4,993.70	5,000.17	4,993.70	18.97	17.84	163.20	344.87	1,700.94	2,535.79	2,499.46	36.32	69.811	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - OLD - Wigeon 23-35 Federal Com 10H - OH - Prelim A

Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,090.38	5,096.85	5,090.38	19.37	18.18	163.37	344.87	1,700.94	2,560.31	2,523.26	37.05	69.102	
5,300.00	5,187.07	5,193.54	5,187.07	19.76	18.53	163.53	344.87	1,700.94	2,584.85	2,547.07	37.78	68.421	
5,400.00	5,283.76	5,290.22	5,283.76	20.16	18.87	163.69	344.87	1,700.94	2,609.40	2,570.90	38.51	67.765	
5,500.00	5,380.44	5,386.91	5,380.44	20.55	19.22	163.84	344.87	1,700.94	2,633.98	2,594.74	39.24	67.133	
5,600.00	5,477.13	5,483.60	5,477.13	20.95	19.56	163.99	344.87	1,700.94	2,658.57	2,618.61	39.96	66.524	
5,700.00	5,573.81	5,580.28	5,573.81	21.35	19.91	164.14	344.87	1,700.94	2,683.18	2,642.49	40.69	65.937	
5,800.00	5,670.50	5,676.97	5,670.50	21.74	20.25	164.29	344.87	1,700.94	2,707.81	2,666.39	41.42	65.370	
5,900.00	5,767.19	5,773.65	5,767.19	22.14	20.60	164.44	344.87	1,700.94	2,732.46	2,690.30	42.15	64.823	
6,000.00	5,863.87	5,870.34	5,863.87	22.54	20.94	164.58	344.87	1,700.94	2,757.12	2,714.24	42.88	64.295	
6,100.00	5,960.56	5,967.02	5,960.56	22.93	21.28	164.72	344.87	1,700.94	2,781.79	2,738.18	43.61	63.784	
6,200.00	6,057.24	6,063.71	6,057.24	23.33	21.63	164.85	344.87	1,700.94	2,806.49	2,762.14	44.34	63.290	
6,300.00	6,153.93	6,160.40	6,153.93	23.73	21.97	164.99	344.87	1,700.94	2,831.19	2,786.12	45.07	62.812	
6,400.00	6,250.61	6,257.08	6,250.61	24.13	22.32	165.12	344.87	1,700.94	2,855.91	2,810.11	45.81	62.349	
6,500.00	6,347.30	6,353.77	6,347.30	24.52	22.67	165.25	344.87	1,700.94	2,880.65	2,834.11	46.54	61.900	
6,600.00	6,443.99	6,450.45	6,443.99	24.92	23.01	165.38	344.87	1,700.94	2,905.40	2,858.13	47.27	61.465	
6,700.00	6,540.67	6,547.14	6,540.67	25.32	23.36	165.51	344.87	1,700.94	2,930.16	2,882.16	48.00	61.044	
6,800.00	6,637.36	6,643.83	6,637.36	25.72	23.70	165.63	344.87	1,700.94	2,954.94	2,906.21	48.73	60.635	
6,900.00	6,734.04	6,740.51	6,734.04	26.11	24.05	165.75	344.87	1,700.94	2,979.73	2,930.26	49.47	60.238	
7,000.00	6,830.73	6,837.20	6,830.73	26.51	24.39	165.87	344.87	1,700.94	3,004.53	2,954.33	50.20	59.853	
7,100.00	6,927.42	6,933.88	6,927.42	26.91	24.74	165.99	344.87	1,700.94	3,029.34	2,978.41	50.93	59.479	
7,200.00	7,024.10	7,030.57	7,024.10	27.31	25.08	166.10	344.87	1,700.94	3,054.17	3,002.50	51.66	59.116	
7,300.00	7,120.78	7,127.25	7,120.78	27.70	25.43	-168.75	344.87	1,700.94	3,079.33	3,026.93	52.40	58.770	
7,400.00	7,216.15	7,222.62	7,216.15	28.08	25.77	-138.84	344.87	1,700.94	3,105.73	3,052.62	53.11	58.479	
7,500.00	7,307.37	7,313.84	7,307.37	28.42	26.09	-122.31	344.87	1,700.94	3,132.92	3,079.14	53.78	58.258	
7,600.00	7,391.67	7,398.14	7,391.67	28.72	26.40	-112.63	344.87	1,700.94	3,160.54	3,106.15	54.39	58.114	
7,700.00	7,466.49	7,472.96	7,466.49	28.97	26.66	-106.24	344.87	1,700.94	3,188.39	3,133.48	54.92	58.057	SF
7,800.00	7,529.56	7,536.03	7,529.56	29.18	26.89	-101.53	344.87	1,700.94	3,216.38	3,161.01	55.36	58.097	
7,900.00	7,578.96	7,585.43	7,578.96	29.35	27.06	-97.75	344.87	1,700.94	3,244.37	3,188.67	55.71	58.241	
8,000.00	7,613.19	7,619.66	7,613.19	29.50	27.19	-94.49	344.87	1,700.94	3,272.19	3,216.25	55.94	58.495	
8,100.00	7,631.21	7,637.68	7,631.21	29.65	27.25	-91.56	344.87	1,700.94	3,299.49	3,243.43	56.06	58.857	
8,200.00	7,634.00	7,640.47	7,634.00	29.80	27.26	-90.00	344.87	1,700.94	3,326.12	3,270.05	56.07	59.318	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy
Project: Eddy County, NM (NAD 83)
Reference Site: Pintail 23-26-35 Federal Com
Site Error: 0.00 usft
Reference Well: Pintail 23-26-35 Federal Com 12H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan 1
Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: .Total Directional Production DB
Offset TVD Reference: Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - OLD - Wigeon 23-35 Federal Com 8H - OH - Prelim A
Survey Program: 0-MWD+IFR1+MS
Reference: Offset
Measured Vertical Measured Vertical Reference Offset Semi Major Axis Highside Offset Wellbore Centre Distance Rule Assigned: Offset Site Error: 0.00 usft Offset Well Error: 0.00 usft
Measured Depth Vertical Depth Vertical Reference Offset (usft) (usft) Reference Offset (usft) (usft) Highside Toolface (°) +N/-S (usft) +E/-W (usft) Between Centres (usft) Between Ellipses (usft) Minimum Separation (usft) Separation Factor Warning

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - OLD - Wigeon 23-35 Federal Com 8H - OH - Prelim A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,090.38	4,424.71	4,372.60	19.37	15.99	166.85	152.11	2,259.02	3,195.78	3,162.13	33.65	94.966		
5,300.00	5,187.07	4,513.47	4,458.94	19.76	16.33	166.85	157.28	2,278.99	3,241.84	3,207.49	34.35	94.383		
5,400.00	5,283.76	4,602.23	4,545.27	20.16	16.67	166.85	162.45	2,298.96	3,287.89	3,252.85	35.04	93.822		
5,500.00	5,380.44	4,691.00	4,631.60	20.55	17.01	166.84	167.62	2,318.93	3,333.95	3,298.21	35.74	93.280	SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Pintail 23-26 Fed Com 10H - OH - Svy

Survey Program:		194-MWD+HRGM		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface		+N/-S	+E/-W	Between	Between	Separation	Factor				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)		(usft)	(usft)	Centres (usft)	Ellipses (usft)	(usft)					
0.00	0.00	0.20	0.00	0.00	0.00	32.57		94.74	60.52	112.42							
100.00	100.00	100.29	100.09	0.28	0.16	32.48		94.80	60.35	112.38	111.95	0.43	259.755				
200.00	200.00	200.37	200.17	0.63	0.33	32.21		94.99	59.84	112.26	111.30	0.96	116.906				
300.00	300.00	300.39	300.19	0.99	0.68	31.86		95.21	59.18	112.11	110.43	1.68	66.836				
400.00	400.00	400.22	400.01	1.35	1.04	31.45		95.54	58.44	112.00	109.61	2.39	46.792				
403.16	403.16	403.37	403.16	1.36	1.05	31.44		95.56	58.41	112.00	109.58	2.42	46.354	CC			
500.00	500.00	500.11	499.90	1.71	1.40	30.96		96.08	57.65	112.05	108.94	3.11	36.032				
600.00	600.00	599.99	599.77	2.07	1.76	30.58		96.58	57.06	112.18	108.35	3.83	29.324				
700.00	700.00	699.76	699.54	2.43	2.11	30.11		97.32	56.43	112.50	107.96	4.54	24.776				
800.00	800.00	799.87	799.64	2.79	2.47	29.60		98.18	55.79	112.92	107.67	5.26	21.480				
900.00	900.00	900.10	899.87	3.14	2.83	29.07		98.84	54.94	113.08	107.10	5.97	18.926				
1,000.00	1,000.00	1,000.39	1,000.16	3.50	3.18	28.81		99.13	54.52	113.13	106.45	6.68	16.930				
1,049.80	1,049.80	1,050.04	1,049.80	3.68	3.35	29.22		98.65	55.19	113.04	106.01	7.03	16.083				
1,100.00	1,100.00	1,099.13	1,098.84	3.86	3.51	30.26		97.85	57.08	113.29	105.92	7.37	15.374	ES			
1,200.00	1,200.00	1,197.23	1,196.60	4.22	3.84	34.17		95.36	64.73	115.30	107.25	8.05	14.321				
1,300.00	1,300.00	1,296.08	1,294.79	4.58	4.18	39.44		91.87	75.58	119.08	110.34	8.74	13.619				
1,400.00	1,400.00	1,394.64	1,392.65	4.94	4.52	44.47		88.45	86.84	124.17	114.73	9.44	13.156				
1,500.00	1,499.98	1,493.51	1,490.67	5.29	4.88	127.33		84.53	99.18	131.70	121.56	10.14	12.994				
1,600.00	1,599.84	1,590.95	1,587.05	5.64	5.23	133.83		79.43	112.52	143.08	132.26	10.82	13.225				
1,700.00	1,699.45	1,690.24	1,685.24	5.98	5.60	140.38		73.71	126.11	158.55	147.03	11.52	13.761				
1,800.00	1,798.70	1,789.17	1,783.23	6.34	5.98	146.29		67.53	138.26	177.16	164.94	12.22	14.494				
1,900.00	1,897.47	1,885.72	1,878.96	6.69	6.34	151.30		61.58	149.25	199.49	186.58	12.91	15.453				
2,000.00	1,995.62	1,980.48	1,972.95	7.05	6.70	155.53		55.88	159.93	226.12	212.53	13.59	16.643				
2,100.00	2,093.06	2,074.41	2,066.11	7.41	7.06	159.10		50.29	170.55	256.94	242.67	14.26	18.016				
2,200.00	2,189.81	2,167.76	2,158.68	7.77	7.42	162.26		44.46	181.03	291.07	276.13	14.94	19.487				
2,300.00	2,286.50	2,262.17	2,252.35	8.14	7.78	164.87		38.60	191.29	325.77	310.16	15.62	20.860				
2,400.00	2,383.18	2,355.61	2,345.09	8.51	8.14	166.95		32.82	201.17	360.67	344.37	16.29	22.134				
2,500.00	2,479.87	2,449.46	2,438.25	8.88	8.50	168.70		26.90	210.91	395.74	378.76	16.98	23.307				
2,600.00	2,576.55	2,542.75	2,530.85	9.25	8.86	170.16		20.95	220.48	430.97	413.31	17.66	24.399				
2,700.00	2,673.24	2,639.24	2,626.68	9.63	9.23	171.41		15.07	230.01	466.03	447.66	18.37	25.365				
2,800.00	2,769.92	2,735.35	2,722.22	10.01	9.60	172.44		9.52	238.92	500.66	481.57	19.08	26.237				
2,900.00	2,866.61	2,831.55	2,817.91	10.39	9.97	173.30		4.40	247.38	534.91	515.11	19.79	27.024				
3,000.00	2,963.30	2,927.31	2,913.22	10.77	10.33	174.01		-0.36	255.44	568.84	548.34	20.50	27.744				
3,100.00	3,059.98	3,021.69	3,007.16	11.15	10.69	174.63		-4.93	263.19	602.64	581.44	21.21	28.420				
3,200.00	3,156.67	3,114.78	3,099.83	11.54	11.04	175.17		-9.40	270.89	636.55	614.65	21.90	29.066				
3,300.00	3,253.35	3,209.70	3,194.31	11.92	11.40	175.66		-13.87	278.76	670.51	647.90	22.61	29.657				
3,400.00	3,350.04	3,308.42	3,292.62	12.31	11.77	176.12		-18.50	286.51	704.09	680.74	23.34	30.160				
3,500.00	3,446.73	3,406.46	3,390.30	12.70	12.14	176.54		-23.11	293.55	737.09	713.01	24.08	30.615				
3,600.00	3,543.41	3,500.77	3,484.28	13.09	12.49	176.91		-27.50	300.15	769.93	745.14	24.78	31.065				
3,700.00	3,640.10	3,596.52	3,579.69	13.48	12.85	177.27		-32.07	306.76	802.73	777.23	25.50	31.476				
3,800.00	3,736.78	3,695.55	3,678.40	13.86	13.22	177.59		-36.62	313.27	835.22	808.97	26.24	31.826				
3,900.00	3,833.47	3,795.50	3,778.08	14.26	13.59	177.89		-40.97	319.19	867.08	840.09	26.99	32.126				
4,000.00	3,930.15	3,892.59	3,874.92	14.65	13.95	178.16		-45.09	324.63	898.64	870.92	27.72	32.421				
4,100.00	4,026.84	3,991.67	3,973.78	15.04	14.31	178.41		-49.27	329.77	929.83	901.37	28.46	32.673				
4,200.00	4,123.53	4,091.22	4,073.14	15.43	14.68	178.65		-53.38	334.55	960.65	931.45	29.20	32.896				
4,300.00	4,220.21	4,188.73	4,170.48	15.82	15.03	178.87		-57.33	338.73	990.99	961.05	29.93	33.105				
4,400.00	4,316.90	4,283.70	4,265.27	16.21	15.38	179.09		-61.40	342.84	1,021.42	990.77	30.65	33.324				
4,500.00	4,413.58	4,401.15	4,382.54	16.61	15.80	179.33		-66.21	347.08	1,051.25	1,019.75	31.50	33.374				
4,600.00	4,510.27	4,510.13	4,491.45	17.00	16.18	179.52		-69.68	348.65	1,078.76	1,046.47	32.29	33.409				
4,700.00	4,606.96	4,607.91	4,589.19	17.39	16.52	179.67		-72.60	349.67	1,105.88	1,072.86	33.02	33.493				
4,800.00	4,703.64	4,707.64	4,688.86	17.79	16.87	179.83		-75.64	350.50	1,132.83	1,099.07	33.76	33.557				
4,900.00	4,800.33	4,806.55	4,787.72	18.18	17.21	179.98		-78.71	351.02	1,159.51	1,125.02	34.49	33.616				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional
Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Pintail 23-26 Fed Com 10H - OH - Svy												Offset Site Error:	0.00 usft
Survey Program: 194-MWD+HRGM											Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,897.01	4,904.64	4,885.77	18.58	17.55	-179.88	-81.72	351.36	1,186.02	1,150.80	35.22	33.671	
5,100.00	4,993.70	4,998.99	4,980.07	18.97	17.87	-179.74	-84.68	351.68	1,212.56	1,176.62	35.94	33.742	
5,200.00	5,090.38	5,100.02	5,081.06	19.37	18.22	-179.60	-87.85	351.90	1,238.97	1,202.29	36.68	33.775	
5,300.00	5,187.07	5,193.36	5,174.35	19.76	18.54	-179.48	-90.64	352.10	1,265.36	1,227.97	37.39	33.842	
5,400.00	5,283.76	5,292.29	5,273.23	20.16	18.89	-179.36	-93.69	352.31	1,291.77	1,253.64	38.13	33.879	
5,500.00	5,380.44	5,390.66	5,371.56	20.55	19.23	-179.23	-96.90	352.29	1,318.02	1,279.15	38.86	33.914	
5,600.00	5,477.13	5,490.74	5,471.56	20.95	19.57	-179.09	-100.40	352.07	1,344.13	1,304.52	39.61	33.936	
5,700.00	5,573.81	5,596.04	5,576.85	21.35	19.93	-179.03	-102.24	351.64	1,369.66	1,329.29	40.37	33.924	
5,800.00	5,670.50	5,693.46	5,674.26	21.74	20.26	-179.01	-103.18	351.16	1,394.95	1,353.85	41.10	33.942	
5,900.00	5,767.19	5,791.58	5,772.37	22.14	20.59	-178.98	-104.09	350.64	1,420.19	1,378.36	41.83	33.955	
6,000.00	5,863.87	5,886.85	5,867.64	22.54	20.91	-178.97	-104.69	350.10	1,445.33	1,402.79	42.54	33.977	
6,100.00	5,960.56	5,973.28	5,954.07	22.93	21.21	-178.97	-105.07	350.03	1,470.89	1,427.68	43.21	34.042	
6,200.00	6,057.24	6,055.45	6,036.24	23.33	21.49	-178.97	-105.69	350.68	1,497.33	1,453.47	43.86	34.142	
6,300.00	6,153.93	6,142.81	6,123.58	23.73	21.80	-178.95	-106.80	352.00	1,524.55	1,480.02	44.53	34.234	
6,400.00	6,250.61	6,251.00	6,231.74	24.13	22.18	-178.90	-109.05	353.13	1,551.53	1,506.20	45.33	34.227	
6,500.00	6,347.30	6,350.15	6,330.85	24.52	22.53	-178.82	-111.91	353.69	1,578.25	1,532.18	46.08	34.253	
6,600.00	6,443.99	6,459.50	6,440.17	24.92	22.91	-178.74	-114.68	353.63	1,604.30	1,557.42	46.88	34.223	
6,700.00	6,540.67	6,562.00	6,542.65	25.32	23.27	-178.73	-115.40	353.52	1,629.89	1,582.26	47.64	34.216	
6,800.00	6,637.36	6,668.64	6,649.29	25.72	23.62	-178.75	-115.58	353.06	1,655.05	1,606.65	48.41	34.191	
6,900.00	6,734.04	6,764.16	6,744.81	26.11	23.94	-178.78	-114.86	352.43	1,679.79	1,630.68	49.11	34.205	
7,000.00	6,830.73	6,862.13	6,842.77	26.51	24.26	-178.85	-113.45	352.20	1,704.76	1,654.94	49.82	34.215	
7,100.00	6,927.42	6,989.96	6,970.54	26.91	24.67	-178.98	-109.87	351.17	1,728.94	1,678.25	50.68	34.112	
7,200.00	7,024.10	7,069.46	7,049.99	27.31	24.93	-179.08	-107.01	350.28	1,752.57	1,701.26	51.31	34.157	
7,300.00	7,120.78	7,152.01	7,132.49	27.70	25.20	-154.30	-104.25	350.05	1,776.56	1,724.61	51.95	34.200	
7,400.00	7,216.15	7,219.12	7,199.58	28.08	25.43	-125.08	-102.50	350.43	1,798.96	1,746.47	52.49	34.273	
7,500.00	7,307.37	7,279.07	7,259.51	28.42	25.63	-109.46	-102.03	351.66	1,820.09	1,767.13	52.96	34.364	
7,600.00	7,391.67	7,349.29	7,329.70	28.72	25.88	-101.14	-102.22	353.77	1,839.49	1,786.00	53.48	34.393	
7,700.00	7,466.49	7,420.53	7,400.89	28.97	26.13	-96.49	-102.63	356.25	1,857.06	1,803.06	54.00	34.392	
7,800.00	7,529.56	7,480.38	7,460.70	29.18	26.35	-93.66	-102.76	358.37	1,873.17	1,818.74	54.43	34.416	
7,900.00	7,578.96	7,522.86	7,503.15	29.35	26.50	-91.60	-102.65	360.02	1,888.74	1,834.00	54.74	34.506	
8,000.00	7,613.19	7,555.00	7,535.26	29.50	26.61	-90.01	-102.43	361.36	1,904.34	1,849.36	54.97	34.642	
8,100.00	7,631.21	7,576.39	7,556.63	29.65	26.69	-88.64	-102.23	362.23	1,920.16	1,865.03	55.13	34.829	
8,200.00	7,634.00	7,578.87	7,559.11	29.80	26.69	-87.75	-102.21	362.33	1,936.62	1,881.47	55.16	35.112	
8,300.00	7,634.00	7,576.65	7,556.89	29.95	26.69	-87.68	-102.23	362.24	1,957.26	1,902.11	55.15	35.488	
8,400.00	7,634.00	7,574.48	7,554.72	30.12	26.68	-87.62	-102.25	362.16	1,982.43	1,927.28	55.14	35.950	
8,500.00	7,634.00	7,572.52	7,552.77	30.30	26.67	-87.59	-102.27	362.08	2,009.48	1,954.34	55.14	36.444	
8,600.00	7,634.00	7,570.82	7,551.07	30.49	26.67	-87.56	-102.29	362.01	2,037.78	1,982.64	55.14	36.959	
8,700.00	7,634.00	7,569.27	7,549.52	30.68	26.66	-87.52	-102.30	361.95	2,068.65	2,013.52	55.13	37.521	
8,800.00	7,634.00	7,567.76	7,548.01	30.89	26.66	-87.48	-102.32	361.89	2,103.81	2,048.68	55.13	38.159	
8,900.00	7,634.00	7,566.27	7,546.52	31.11	26.65	-87.43	-102.33	361.83	2,143.07	2,087.94	55.13	38.870	
9,000.00	7,634.00	7,564.80	7,545.05	31.34	26.64	-87.39	-102.34	361.77	2,186.20	2,131.06	55.14	39.651	
9,100.00	7,634.00	7,563.36	7,543.62	31.59	26.64	-87.35	-102.36	361.71	2,232.97	2,177.83	55.14	40.497	
9,200.00	7,634.00	7,561.94	7,542.20	31.85	26.64	-87.31	-102.37	361.65	2,283.17	2,228.03	55.14	41.404	
9,300.00	7,634.00	7,560.55	7,540.81	32.13	26.63	-87.26	-102.38	361.60	2,336.58	2,281.43	55.15	42.368	
9,400.00	7,634.00	10,115.42	8,880.78	32.41	39.34	-121.55	-1,553.80	447.11	2,384.08	2,317.24	66.84	35.668	
9,500.00	7,634.00	10,201.82	8,880.96	32.72	40.09	-121.59	-1,640.15	444.47	2,381.33	2,313.40	67.94	35.053	
9,600.00	7,634.00	10,261.00	8,881.31	33.03	40.62	-121.61	-1,699.32	443.22	2,379.70	2,310.85	68.84	34.566	
9,700.00	7,634.00	10,356.00	8,882.31	33.36	41.51	-121.65	-1,794.31	442.42	2,379.25	2,309.17	70.08	33.952	
9,708.65	7,634.00	10,356.00	8,882.31	33.39	41.51	-121.65	-1,794.31	442.42	2,379.24	2,309.12	70.12	33.933	
9,800.00	7,634.00	10,414.92	8,883.03	33.70	42.08	-121.66	-1,853.23	442.77	2,379.96	2,308.93	71.04	33.504	
9,900.00	7,634.00	10,511.99	8,884.14	34.05	43.03	-121.67	-1,950.27	444.37	2,381.67	2,309.31	72.36	32.915	
10,000.00	7,634.00	10,623.35	8,885.46	34.42	44.15	-121.68	-2,061.62	445.45	2,382.84	2,308.99	73.84	32.269	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy	Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H
Project: Eddy County, NM (NAD 83)	TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site: Pintail 23-26-35 Federal Com	MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error: 0.00 usft	North Reference: Grid
Reference Well: Pintail 23-26-35 Federal Com 12H	Survey Calculation Method: Minimum Curvature
Well Error: 0.00 usft	Output errors are at: 2.00 sigma
Reference Wellbore: OH	Database: .Total Directional Production DB
Reference Design: Plan 1	Offset TVD Reference: Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Pintail 23-26 Fed Com 10H - OH - Svy

Survey Program: 194-MWD+HRGM		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:
Reference Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:
10,100.00	7,634.00	10,693.01	8,886.39	34.80	44.87	-121.69	-2,131.27	446.30	2,384.35	2,309.38	74.97	31.806		
10,200.00	7,634.00	10,769.19	8,887.47	35.19	45.67	-121.69	-2,207.40	448.63	2,387.34	2,311.17	76.17	31.342		
10,300.00	7,634.00	10,961.21	8,890.07	35.59	47.74	-121.72	-2,399.37	451.06	2,388.99	2,310.42	78.57	30.407		
10,400.00	7,634.00	11,089.88	8,891.02	36.00	49.15	-121.76	-2,528.03	449.62	2,388.25	2,307.90	80.35	29.725		
10,500.00	7,634.00	11,254.00	8,889.88	36.43	50.97	-121.82	-2,692.02	443.72	2,384.17	2,301.67	82.49	28.901		
10,600.00	7,634.00	11,325.02	8,890.18	36.86	51.77	-121.87	-2,762.97	440.55	2,380.31	2,296.57	83.75	28.423		
10,700.00	7,634.00	11,405.00	8,890.65	37.30	52.68	-121.92	-2,842.91	438.09	2,377.68	2,292.58	85.10	27.939		
10,800.00	7,634.00	11,514.67	8,890.44	37.76	53.95	-121.95	-2,952.54	435.42	2,375.24	2,288.45	86.79	27.368		
10,900.00	7,634.00	11,596.00	8,890.35	38.22	54.90	-121.98	-3,033.85	433.21	2,372.64	2,284.44	88.20	26.902		
11,000.00	7,634.00	11,691.00	8,891.12	38.70	56.02	-122.03	-3,128.82	430.98	2,370.80	2,281.04	89.76	26.414		
11,100.00	7,634.00	11,772.19	8,892.22	39.18	56.99	-122.07	-3,209.99	429.50	2,369.63	2,278.45	91.18	25.988		
11,200.00	7,634.00	11,890.53	8,893.13	39.67	58.41	-122.12	-3,328.31	427.44	2,368.29	2,275.25	93.03	25.456		
11,300.00	7,634.00	11,977.00	8,893.14	40.17	59.46	-122.14	-3,414.76	426.12	2,366.73	2,272.18	94.55	25.030		
11,379.05	7,634.00	12,027.01	8,893.48	40.57	60.08	-122.16	-3,464.77	425.65	2,366.19	2,270.64	95.55	24.763		
11,400.00	7,634.00	12,039.47	8,893.69	40.67	60.23	-122.17	-3,477.23	425.58	2,366.23	2,270.43	95.81	24.698		
11,500.00	7,634.00	12,158.33	8,896.19	41.19	61.70	-122.23	-3,596.06	425.16	2,366.88	2,269.17	97.71	24.222		
11,576.76	7,634.00	12,224.71	8,897.02	41.59	62.53	-122.25	-3,662.43	424.58	2,366.63	2,267.73	98.90	23.929		
11,600.00	7,634.00	12,243.09	8,897.38	41.71	62.76	-122.26	-3,680.81	424.44	2,366.65	2,267.41	99.24	23.848		
11,700.00	7,634.00	12,399.53	8,898.13	42.24	64.71	-122.32	-3,837.21	422.13	2,365.21	2,263.60	101.62	23.276		
11,800.00	7,634.00	12,479.29	8,898.31	42.78	65.72	-122.34	-3,916.96	420.66	2,363.50	2,260.38	103.11	22.921		
11,900.00	7,634.00	12,566.32	8,898.50	43.32	66.82	-122.36	-4,003.99	419.80	2,362.49	2,257.78	104.71	22.563		
12,000.00	7,634.00	12,670.52	8,898.65	43.87	68.14	-122.38	-4,108.18	419.14	2,361.75	2,255.24	106.52	22.173		
12,100.00	7,634.00	12,784.59	8,899.26	44.43	69.60	-122.42	-4,222.23	417.15	2,360.26	2,251.82	108.44	21.765		
12,200.00	7,634.00	12,871.08	8,900.27	44.99	70.71	-122.47	-4,308.71	415.45	2,358.95	2,248.91	110.04	21.437		
12,300.00	7,634.00	12,958.45	8,901.11	45.56	71.84	-122.50	-4,396.06	414.58	2,358.34	2,246.67	111.67	21.179		
12,400.00	7,634.00	13,059.50	8,901.43	46.13	73.15	-122.52	-4,497.11	414.13	2,357.85	2,244.37	113.48	20.778		
12,500.00	7,634.00	13,196.71	8,901.63	46.71	74.94	-122.54	-4,634.32	413.05	2,357.14	2,241.41	115.73	20.367		
12,600.00	7,634.00	13,271.64	8,902.17	47.30	75.91	-122.58	-4,709.22	411.27	2,355.33	2,238.11	117.23	20.092		
12,700.00	7,634.00	13,363.90	8,903.92	47.89	77.12	-122.63	-4,801.45	410.09	2,354.97	2,236.04	118.93	19.802		
12,800.00	7,634.00	13,504.41	8,903.91	48.48	78.97	-122.66	-4,941.94	407.87	2,353.37	2,232.13	121.24	19.411		
12,900.00	7,634.00	13,644.11	8,904.43	49.08	80.80	-122.72	-5,081.53	402.56	2,351.09	2,227.58	123.50	19.037		
13,000.00	7,634.00	13,828.09	8,902.36	49.68	83.21	-122.80	-5,265.17	391.70	2,346.30	2,220.11	126.19	18.593		
13,100.00	7,634.00	13,913.65	8,900.55	50.29	84.34	-122.84	-5,350.47	385.36	2,339.75	2,211.88	127.87	18.298		
13,200.00	7,634.00	13,988.00	8,900.07	50.91	85.31	-122.88	-5,424.67	380.70	2,334.76	2,205.33	129.43	18.039		
13,300.00	7,634.00	13,988.00	8,900.07	51.52	85.31	-122.88	-5,424.67	380.70	2,332.00	2,201.87	130.13	17.921		
13,366.17	7,634.00	14,040.02	8,900.39	51.94	86.01	-122.91	-5,476.65	378.86	2,331.00	2,199.83	131.17	17.771		
13,400.00	7,634.00	14,052.75	8,900.54	52.15	86.18	-122.91	-5,489.38	378.71	2,331.15	2,199.63	131.53	17.724		
13,500.00	7,634.00	14,101.98	8,901.39	52.77	86.84	-122.92	-5,538.61	379.13	2,333.35	2,200.66	132.70	17.584		
13,600.00	7,634.00	14,198.61	8,902.92	53.40	88.14	-122.92	-5,635.20	380.69	2,336.36	2,201.83	134.53	17.367		
13,700.00	7,634.00	14,275.00	8,904.05	54.03	89.18	-122.90	-5,711.56	382.78	2,340.20	2,204.12	136.08	17.198		
13,800.00	7,634.00	14,391.24	8,905.60	54.67	90.76	-122.87	-5,827.74	386.15	2,344.15	2,205.93	138.22	16.959		
13,900.00	7,634.00	14,488.23	8,907.12	55.30	92.08	-122.86	-5,924.70	388.35	2,347.68	2,207.60	140.08	16.760		
14,000.00	7,634.00	14,587.58	8,908.35	55.95	93.44	-122.84	-6,023.99	391.27	2,351.60	2,209.62	141.99	16.562		
14,100.00	7,634.00	14,725.86	8,909.25	56.59	95.33	-122.81	-6,162.25	393.74	2,354.14	2,209.68	144.46	16.296		
14,200.00	7,634.00	14,864.53	8,910.89	57.24	97.21	-122.83	-6,300.90	393.48	2,355.42	2,208.53	146.88	16.036		
14,300.00	7,634.00	14,986.76	8,912.25	57.89	98.88	-122.87	-6,423.10	391.60	2,355.54	2,206.49	149.05	15.803		
14,400.00	7,634.00	15,091.29	8,913.31	58.54	100.30	-122.91	-6,527.60	388.76	2,354.58	2,203.58	150.99	15.594		
14,492.04	7,634.00	15,166.37	8,913.79	59.15	101.32	-122.93	-6,602.66	387.44	2,354.25	2,201.73	152.52	15.435		
14,500.00	7,634.00	15,172.97	8,913.83	59.20	101.41	-122.93	-6,609.26	387.36	2,354.26	2,201.60	152.66	15.422		
14,600.00	7,634.00	15,258.57	8,914.33	59.86	102.58	-122.94	-6,694.86	386.66	2,354.66	2,200.28	154.38	15.253		
14,700.00	7,634.00	15,360.55	8,915.29	60.52	103.98	-122.95	-6,796.83	386.05	2,355.45	2,199.14	156.31	15.069		
14,800.00	7,634.00	15,475.54	8,916.27	61.18	105.56	-122.98	-6,911.80	384.54	2,355.57	2,197.15	158.42	14.869		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Pintail 23-26 Fed Com 10H - OH - Svy														Offset Site Error:	0.00 usft
Survey Program: 194-MWD+HRGM										Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
14,840.98	7,634.00	15,515.00	8,916.55	61.45	106.10	-122.99	-6,951.26	383.96	2,355.55	2,196.36	159.18	14.798			
14,900.00	7,634.00	15,557.14	8,916.99	61.85	106.68	-123.00	-6,993.39	383.45	2,355.74	2,195.65	160.09	14.715			
15,000.00	7,634.00	15,632.13	8,918.48	62.51	107.71	-123.03	-7,068.37	383.03	2,357.11	2,195.46	161.65	14.581			
15,100.00	7,634.00	15,736.75	8,920.60	63.18	109.16	-123.06	-7,172.96	382.95	2,358.93	2,195.30	163.63	14.416			
15,200.00	7,634.00	15,838.88	8,921.90	63.86	110.57	-123.08	-7,275.09	382.69	2,360.19	2,194.60	165.59	14.254			
15,300.00	7,634.00	15,913.80	8,923.39	64.53	111.60	-123.09	-7,350.00	382.85	2,362.22	2,195.07	167.15	14.132			
15,400.00	7,634.00	15,992.00	8,925.59	65.21	112.69	-123.12	-7,428.16	383.59	2,365.31	2,196.57	168.74	14.017			
15,500.00	7,634.00	16,137.08	8,929.62	65.88	114.70	-123.19	-7,573.18	383.26	2,367.27	2,195.96	171.31	13.819			
15,600.00	7,634.00	16,248.53	8,932.26	66.56	116.25	-123.23	-7,684.59	382.60	2,368.94	2,195.55	173.38	13.663			
15,700.00	7,634.00	16,333.89	8,934.49	67.24	117.43	-123.28	-7,769.91	381.50	2,370.17	2,195.08	175.09	13.537			
15,800.00	7,634.00	16,454.69	8,937.50	67.93	119.11	-123.34	-7,890.68	380.96	2,372.10	2,194.80	177.29	13.379			
15,900.00	7,634.00	16,526.36	8,938.62	68.61	120.10	-123.35	-7,962.33	380.57	2,373.41	2,194.58	178.83	13.272			
16,000.00	7,634.00	16,607.86	8,940.71	69.30	121.24	-123.38	-8,043.81	381.11	2,376.14	2,195.66	180.49	13.165			
16,100.00	7,634.00	16,730.67	8,944.60	69.99	122.95	-123.44	-8,166.55	380.94	2,378.63	2,195.89	182.73	13.017			
16,200.00	7,634.00	16,887.17	8,948.83	70.68	125.13	-123.55	-8,322.96	377.78	2,379.22	2,193.83	185.38	12.834			
16,300.00	7,634.00	17,008.35	8,949.34	71.37	126.81	-123.58	-8,444.10	374.95	2,378.34	2,190.76	187.58	12.679			
16,400.00	7,634.00	17,136.10	8,949.45	72.06	128.58	-123.62	-8,571.78	370.66	2,376.43	2,186.60	189.83	12.519			
16,500.00	7,634.00	17,232.00	8,949.88	72.76	129.90	-123.67	-8,667.58	366.43	2,373.84	2,182.14	191.69	12.384			
16,600.00	7,634.00	17,303.27	8,950.02	73.45	130.89	-123.70	-8,738.81	363.98	2,371.98	2,178.70	193.28	12.272			
16,700.00	7,634.00	17,386.59	8,950.22	74.15	132.05	-123.71	-8,822.11	362.39	2,371.32	2,176.31	195.01	12.160			
16,800.00	7,634.00	17,527.31	8,950.65	74.85	134.01	-123.75	-8,962.79	358.99	2,370.43	2,172.98	197.45	12.005			
16,900.00	7,634.00	17,613.00	8,950.32	75.55	135.20	-123.76	-9,048.45	356.78	2,368.86	2,169.63	199.23	11.890			
17,000.00	7,634.00	17,698.75	8,950.24	76.25	136.40	-123.77	-9,134.18	354.89	2,367.77	2,166.77	201.00	11.780			
17,100.00	7,634.00	17,857.85	8,949.01	76.95	138.61	-123.82	-9,293.12	348.08	2,364.05	2,160.43	203.62	11.610			
17,200.00	7,634.00	17,928.13	8,948.89	77.65	139.58	-123.85	-9,363.33	345.19	2,361.32	2,156.10	205.22	11.506			
17,300.00	7,634.00	17,994.00	8,948.40	78.36	140.50	-123.85	-9,429.18	343.38	2,359.59	2,152.83	206.76	11.412			
17,355.46	7,634.00	18,032.00	8,948.05	78.75	141.04	-123.85	-9,467.17	342.87	2,359.23	2,151.60	207.62	11.363			
17,400.00	7,634.00	18,054.68	8,947.95	79.06	141.35	-123.84	-9,489.85	342.84	2,359.43	2,151.23	208.20	11.332			
17,500.00	7,634.00	18,129.50	8,947.90	79.77	142.41	-123.82	-9,564.66	343.85	2,361.23	2,151.41	209.83	11.253			
17,600.00	7,634.00	18,218.45	8,947.12	80.48	143.66	-123.77	-9,653.60	345.48	2,363.13	2,151.46	211.68	11.164			
17,700.00	7,634.00	18,286.02	8,947.38	81.19	144.62	-123.74	-9,721.14	347.34	2,366.41	2,153.25	213.16	11.102			
17,800.00	7,634.00	18,381.00	8,947.59	81.90	145.96	-123.71	-9,816.10	349.14	2,369.01	2,153.92	215.08	11.014	SF		
17,900.00	7,634.00	18,381.00	8,947.59	82.61	145.96	-123.71	-9,816.10	349.14	2,375.15	2,159.94	215.20	11.037			
18,000.00	7,634.00	18,381.00	8,947.59	83.32	145.96	-123.71	-9,816.10	349.14	2,385.47	2,170.48	214.99	11.096			
18,100.00	7,634.00	18,381.00	8,947.59	84.03	145.96	-123.72	-9,816.10	349.14	2,400.00	2,185.56	214.44	11.192			
18,200.00	7,634.00	18,381.00	8,947.59	84.74	145.96	-123.72	-9,816.10	349.14	2,418.69	2,205.12	213.58	11.325			
18,300.00	7,634.00	18,381.00	8,947.59	85.46	145.96	-123.72	-9,816.10	349.14	2,441.35	2,228.92	212.43	11.493			
18,400.00	7,634.00	18,381.00	8,947.59	86.17	145.96	-123.72	-9,816.10	349.14	2,467.85	2,256.85	211.00	11.696			
18,500.00	7,634.00	18,381.00	8,947.59	86.89	145.96	-123.72	-9,816.10	349.14	2,498.08	2,288.75	209.33	11.934			
18,600.00	7,634.00	18,381.00	8,947.59	87.60	145.96	-123.72	-9,816.10	349.14	2,531.90	2,324.46	207.44	12.205			
18,700.00	7,634.00	18,381.00	8,947.59	88.32	145.96	-123.72	-9,816.10	349.14	2,569.17	2,363.81	205.36	12.511			
18,800.00	7,634.00	18,381.00	8,947.59	89.04	145.96	-123.72	-9,816.10	349.14	2,609.74	2,406.62	203.11	12.849			
18,900.00	7,634.00	18,381.00	8,947.59	89.76	145.96	-123.72	-9,816.10	349.14	2,653.46	2,452.72	200.73	13.219			
19,000.00	7,634.00	18,381.00	8,947.59	90.48	145.96	-123.72	-9,816.10	349.14	2,700.17	2,501.93	198.24	13.621			
19,100.00	7,634.00	18,381.00	8,947.59	91.20	145.96	-123.72	-9,816.10	349.14	2,749.74	2,554.07	195.66	14.054			
19,200.00	7,634.00	18,381.00	8,947.59	91.92	145.96	-123.72	-9,816.10	349.14	2,801.99	2,608.97	193.02	14.517			
19,300.00	7,634.00	18,381.00	8,947.59	92.64	145.96	-123.72	-9,816.10	349.14	2,856.79	2,666.46	190.33	15.009			
19,400.00	7,634.00	18,381.00	8,947.59	93.37	145.96	-123.72	-9,816.10	349.14	2,913.99	2,726.37	187.63	15.531			
19,500.00	7,634.00	18,381.00	8,947.59	94.09	145.96	-123.72	-9,816.10	349.14	2,973.46	2,788.55	184.91	16.081			
19,600.00	7,634.00	18,381.00	8,947.59	94.81	145.96	-123.72	-9,816.10	349.14	3,035.06	2,852.86	182.20	16.658			
19,700.00	7,634.00	18,381.00	8,947.59	95.54	145.96	-123.72	-9,816.10	349.14	3,098.66	2,919.16	179.50	17.262			
19,800.00	7,634.00	18,381.00	8,947.59	96.26	145.96	-123.72	-9,816.10	349.14	3,164.14	2,987.30	176.84	17.893			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional
Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Pintail 23-26 Fed Com 10H - OH - Svy													Offset Site Error:	0.00 usft
Survey Program: 194-MWD+HRGM													Offset Well Error:	0.00 usft
Reference													Rule Assigned:	
Measured Vertical				Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning		
Depth	Depth	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		
(usft)	(usft)	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor		
19,900.00	7,634.00	18,381.00	8,947.59	96.99	145.96	-123.72	-9,816.10	349.14	3,231.39	3,057.18	174.21	18.548		
20,000.00	7,634.00	18,381.00	8,947.59	97.71	145.96	-123.72	-9,816.10	349.14	3,300.30	3,128.67	171.63	19.229		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23 Fed Com #1 - Wellbore #1 - Cone

Survey Program:		Reference		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
11,100.00	7,634.00	7,687.50	7,634.00	39.18	233.46	-90.00	-3,198.24	1,756.63	3,335.04	3,063.48	271.57	12.281	
11,116.94	7,634.00	7,687.50	7,634.00	39.26	233.46	-90.00	-3,198.24	1,756.63	3,335.00	3,063.38	271.62	12.278	CC, ES
11,200.00	7,634.00	7,687.50	7,634.00	39.67	233.46	-90.00	-3,198.24	1,756.63	3,336.03	3,064.16	271.88	12.270	SF

Offset Site Error: 0.00 usft
Offset Well Error: 0.00 usft

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23 Fed Com 004H - OH - Svy

Survey Program: 179-MWD+HRGM		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:
Reference	Vertical	Measured	Vertical	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)									0.00 usft
0.00	0.00	0.00	18.50	0.00	0.00	86.67	151.53	2,607.02	2,611.49					
100.00	100.00	99.10	117.60	0.28	0.15	86.67	151.45	2,606.69	2,611.15	2,610.71	0.43	6,065.428		
200.00	200.00	213.53	232.02	0.63	0.40	86.68	151.17	2,605.53	2,610.10	2,609.07	1.04	2,517.040		
300.00	300.00	312.45	330.93	0.99	0.76	86.68	151.01	2,604.33	2,608.88	2,607.14	1.75	1,490.939		
400.00	400.00	410.16	428.64	1.35	1.11	86.68	150.81	2,603.22	2,607.74	2,605.28	2.46	1,060.728		
500.00	500.00	502.90	521.38	1.71	1.44	86.69	150.49	2,602.21	2,606.64	2,603.50	3.15	828.684		
559.66	559.66	541.05	559.53	1.92	1.57	86.69	150.39	2,602.06	2,606.40	2,602.91	3.49	746.901	CC	
600.00	600.00	573.00	591.47	2.07	1.68	86.69	150.38	2,602.17	2,606.52	2,602.78	3.74	696.320	ES	
700.00	700.00	654.40	672.87	2.43	1.95	86.69	150.43	2,602.87	2,607.36	2,602.99	4.37	596.291		
800.00	800.00	761.91	780.37	2.79	2.31	86.69	150.59	2,603.84	2,608.27	2,603.17	5.10	511.816		
900.00	900.00	855.05	873.51	3.14	2.63	86.68	150.92	2,604.66	2,609.17	2,603.39	5.78	451.780		
1,000.00	1,000.00	960.92	979.38	3.50	3.00	86.68	151.28	2,605.61	2,610.07	2,603.57	6.50	401.421		
1,100.00	1,100.00	1,058.23	1,076.68	3.86	3.34	86.67	151.68	2,606.25	2,610.76	2,603.56	7.20	362.549		
1,200.00	1,200.00	1,135.00	1,153.44	4.22	3.61	86.66	152.13	2,607.49	2,612.33	2,604.51	7.83	333.691		
1,300.00	1,300.00	1,185.45	1,203.86	4.58	3.79	86.65	152.52	2,609.00	2,615.22	2,606.86	8.36	312.753		
1,400.00	1,400.00	1,261.02	1,279.35	4.94	4.06	86.64	153.23	2,612.31	2,619.58	2,610.60	8.98	291.577		
1,500.00	1,499.98	1,362.55	1,380.78	5.29	4.42	163.89	154.69	2,616.69	2,625.64	2,615.95	9.70	270.819		
1,600.00	1,599.84	1,444.74	1,462.87	5.64	4.71	163.83	156.07	2,620.63	2,635.54	2,625.21	10.33	255.103		
1,700.00	1,699.45	1,549.59	1,567.56	5.98	5.08	163.78	157.73	2,626.16	2,649.26	2,638.21	11.05	239.717		
1,800.00	1,798.70	1,663.04	1,680.89	6.34	5.49	163.78	157.71	2,631.18	2,665.30	2,653.50	11.80	225.783		
1,900.00	1,897.47	1,822.80	1,840.53	6.69	6.06	163.88	155.85	2,637.10	2,684.15	2,671.42	12.73	210.930		
2,000.00	1,995.62	1,933.09	1,950.78	7.05	6.45	163.93	153.98	2,639.45	2,704.53	2,691.07	13.46	200.860		
2,100.00	2,093.06	2,043.70	2,061.35	7.41	6.84	164.00	151.84	2,640.92	2,727.36	2,713.16	14.20	192.001		
2,200.00	2,189.81	2,131.46	2,149.09	7.77	7.15	164.12	149.93	2,642.14	2,752.97	2,738.10	14.86	185.204		
2,300.00	2,286.50	2,231.79	2,249.39	8.14	7.50	164.31	147.92	2,643.76	2,779.09	2,763.52	15.57	178.506		
2,400.00	2,383.18	2,334.31	2,351.87	8.51	7.87	164.51	145.67	2,645.05	2,804.87	2,788.58	16.28	172.245		
2,500.00	2,479.87	2,439.00	2,456.52	8.88	8.23	164.71	143.27	2,646.19	2,830.51	2,813.50	17.01	166.394		
2,600.00	2,576.55	2,534.00	2,551.50	9.25	8.57	164.89	141.16	2,647.04	2,856.00	2,838.29	17.70	161.312		
2,700.00	2,673.24	2,630.25	2,647.71	9.63	8.91	165.07	138.57	2,647.98	2,881.58	2,863.17	18.41	156.556		
2,800.00	2,769.92	2,724.38	2,741.81	10.01	9.24	165.25	136.19	2,648.92	2,907.20	2,888.10	19.10	152.194		
2,900.00	2,866.61	2,843.10	2,860.49	10.39	9.66	165.46	133.55	2,649.74	2,932.58	2,912.69	19.89	147.420		
3,000.00	2,963.30	2,926.00	2,943.38	10.77	9.96	165.59	131.97	2,650.20	2,957.84	2,937.29	20.55	143.939		
3,100.00	3,059.98	3,019.97	3,037.33	11.15	10.29	165.75	130.24	2,650.91	2,983.33	2,962.08	21.25	140.389		
3,200.00	3,156.67	3,121.77	3,139.11	11.54	10.65	165.92	127.94	2,651.63	3,008.78	2,986.80	21.98	136.866		
3,300.00	3,253.35	3,224.72	3,242.02	11.92	11.02	166.09	125.84	2,652.17	3,034.08	3,011.36	22.72	133.531		
3,400.00	3,350.04	3,333.32	3,350.61	12.31	11.40	166.25	123.77	2,652.39	3,059.09	3,035.61	23.48	130.269		
3,500.00	3,446.73	3,436.92	3,454.19	12.70	11.77	166.42	121.58	2,652.22	3,083.77	3,059.54	24.23	127.296		
3,600.00	3,543.41	3,534.92	3,552.17	13.09	12.11	166.56	119.89	2,652.00	3,108.40	3,083.46	24.95	124.605		
3,700.00	3,640.10	3,638.00	3,655.22	13.48	12.48	166.72	117.59	2,651.63	3,132.93	3,107.24	25.69	121.961		
3,800.00	3,736.78	3,736.66	3,753.87	13.86	12.82	166.86	115.72	2,651.08	3,157.29	3,130.88	26.41	119.535		
3,900.00	3,833.47	3,836.52	3,853.70	14.26	13.18	167.00	113.89	2,650.53	3,181.67	3,154.52	27.14	117.217		
4,000.00	3,930.15	3,937.43	3,954.61	14.65	13.52	167.13	112.99	2,649.82	3,205.91	3,178.04	27.87	115.028		
4,100.00	4,026.84	4,063.21	4,080.37	15.04	13.95	167.24	113.84	2,648.40	3,229.77	3,201.08	28.69	112.588		
4,200.00	4,123.53	4,163.18	4,180.33	15.43	14.29	167.34	114.13	2,646.69	3,253.05	3,223.64	29.41	110.621		
4,300.00	4,220.21	4,249.00	4,266.14	15.82	14.58	167.43	113.90	2,645.31	3,276.45	3,246.37	30.08	108.937		
4,400.00	4,316.90	4,336.22	4,353.35	16.21	14.88	167.52	113.63	2,644.19	3,300.17	3,269.41	30.75	107.314		
4,500.00	4,413.58	4,397.53	4,414.66	16.61	15.09	167.58	113.93	2,643.82	3,324.55	3,293.23	31.32	106.139	SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-26 Federal Com 3H - OH - Svy													Offset Site Error:	0.00 usft	
Survey Program: 200-MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	12.50	0.00	0.00	87.97	60.17	1,700.44	1,701.55						
100.00	100.00	86.76	99.26	0.28	0.14	87.97	60.30	1,700.45	1,701.52	1,701.11	0.41	4,114.077			
200.00	200.00	185.91	198.41	0.63	0.30	87.95	60.77	1,700.51	1,701.59	1,700.66	0.93	1,831.115			
300.00	300.00	287.46	299.96	0.99	0.63	87.93	61.52	1,700.54	1,701.65	1,700.03	1.62	1,048.233			
400.00	400.00	388.62	401.11	1.35	0.99	87.90	62.31	1,700.47	1,701.61	1,699.27	2.34	725.923			
500.00	500.00	491.53	504.02	1.71	1.36	87.87	63.22	1,700.28	1,701.46	1,698.39	3.07	554.058			
600.00	600.00	590.74	603.23	2.07	1.72	87.84	64.26	1,700.02	1,701.24	1,697.45	3.78	449.532			
700.00	700.00	691.32	703.80	2.43	2.08	87.80	65.34	1,699.82	1,701.08	1,696.58	4.50	377.788			
800.00	800.00	796.94	809.42	2.79	2.45	87.77	66.20	1,699.37	1,700.68	1,695.44	5.24	324.674			
900.00	900.00	902.88	915.35	3.14	2.83	87.73	67.31	1,698.55	1,699.95	1,693.98	5.97	284.542			
1,000.00	1,000.00	1,039.75	1,052.18	3.50	3.31	87.71	67.93	1,695.65	1,697.81	1,691.00	6.81	249.271			
1,100.00	1,100.00	1,124.55	1,136.95	3.86	3.61	87.72	67.44	1,693.38	1,695.12	1,687.66	7.46	227.160			
1,200.00	1,200.00	1,206.00	1,218.38	4.22	3.88	87.76	66.28	1,692.34	1,693.74	1,685.64	8.10	209.178			
1,300.00	1,300.00	1,356.34	1,368.62	4.58	4.39	87.89	62.23	1,689.50	1,692.03	1,683.07	8.96	188.785			
1,400.00	1,400.00	1,496.79	1,508.85	4.94	4.89	87.95	60.25	1,681.75	1,686.35	1,676.54	9.81	171.984			
1,500.00	1,499.98	1,591.89	1,603.76	5.29	5.23	165.29	59.77	1,675.82	1,681.78	1,671.28	10.49	160.262			
1,600.00	1,599.84	1,709.11	1,720.74	5.64	5.64	165.31	60.75	1,668.49	1,680.70	1,669.45	11.25	149.379			
1,700.00	1,699.45	1,977.45	1,986.49	5.98	6.61	165.17	70.12	1,633.60	1,675.03	1,662.58	12.45	134.517			
1,800.00	1,798.70	2,096.29	2,103.27	6.34	7.04	165.14	74.71	1,612.08	1,668.74	1,655.53	13.21	126.342			
1,900.00	1,897.47	2,201.77	2,206.85	6.69	7.43	165.14	78.76	1,592.54	1,665.45	1,651.52	13.93	119.525			
1,956.90	1,953.40	2,260.30	2,264.30	6.89	7.64	165.15	80.81	1,581.53	1,664.91	1,650.57	14.35	116.061	CC, ES		
2,000.00	1,995.62	2,302.92	2,306.14	7.05	7.80	165.16	82.23	1,573.52	1,665.23	1,650.58	14.65	113.640			
2,100.00	2,093.06	2,397.47	2,398.98	7.41	8.15	165.21	85.20	1,555.89	1,668.54	1,653.18	15.36	108.622			
2,200.00	2,189.81	2,502.48	2,502.12	7.77	8.54	165.30	88.26	1,536.41	1,674.70	1,658.60	16.10	104.021			
2,300.00	2,286.50	2,603.54	2,601.33	8.14	8.91	165.42	90.85	1,517.31	1,680.75	1,663.92	16.83	99.853			
2,400.00	2,383.18	2,692.99	2,689.20	8.51	9.24	165.53	92.68	1,500.69	1,687.14	1,669.60	17.54	96.198			
2,500.00	2,479.87	2,776.76	2,771.63	8.88	9.55	165.66	94.00	1,485.80	1,694.33	1,676.10	18.23	92.938			
2,600.00	2,576.55	2,869.61	2,863.14	9.25	9.90	165.80	95.22	1,470.13	1,702.41	1,683.46	18.95	89.837			
2,700.00	2,673.24	2,973.38	2,965.25	9.63	10.29	165.84	100.12	1,452.37	1,710.35	1,690.65	19.70	86.807			
2,800.00	2,769.92	3,074.77	3,065.02	10.01	10.66	165.89	104.62	1,434.90	1,718.17	1,697.72	20.45	84.009			
2,900.00	2,866.61	3,163.32	3,152.22	10.39	10.99	165.95	107.79	1,419.79	1,726.16	1,704.99	21.17	81.553			
3,000.00	2,963.30	3,243.78	3,231.61	10.77	11.29	166.05	109.79	1,406.83	1,735.09	1,713.23	21.85	79.391			
3,100.00	3,059.98	3,333.91	3,320.70	11.15	11.63	166.18	111.12	1,393.31	1,745.09	1,722.52	22.57	77.310			
3,200.00	3,156.67	3,446.21	3,431.60	11.54	12.04	166.26	115.07	1,376.07	1,754.81	1,731.45	23.36	75.115			
3,300.00	3,253.35	3,595.35	3,578.40	11.92	12.60	166.30	122.43	1,350.82	1,763.05	1,738.79	24.26	72.666			
3,400.00	3,350.04	3,716.26	3,696.76	12.31	13.06	166.30	129.45	1,327.15	1,768.42	1,743.34	25.08	70.511			
3,500.00	3,446.73	3,799.54	3,778.39	12.70	13.37	166.33	133.38	1,311.12	1,774.21	1,748.42	25.79	68.786			
3,600.00	3,543.41	3,880.52	3,857.96	13.09	13.68	166.39	136.03	1,296.34	1,780.99	1,754.50	26.50	67.213			
3,700.00	3,640.10	3,966.60	3,942.75	13.48	14.00	166.50	137.79	1,281.61	1,788.89	1,761.67	27.21	65.732			
3,800.00	3,736.78	4,097.72	4,071.66	13.86	14.49	166.63	141.17	1,257.88	1,795.75	1,767.68	28.07	63.971			
3,900.00	3,833.47	4,187.47	4,159.80	14.26	14.83	166.71	143.94	1,241.19	1,802.21	1,773.41	28.80	62.567			
4,000.00	3,930.15	4,277.55	4,248.42	14.65	15.17	166.80	146.17	1,225.26	1,809.56	1,780.03	29.54	61.263			
4,100.00	4,026.84	4,390.08	4,359.05	15.04	15.60	166.86	150.83	1,205.13	1,816.75	1,786.41	30.34	59.878			
4,200.00	4,123.53	4,485.35	4,452.51	15.43	15.96	166.84	156.64	1,187.62	1,823.44	1,792.34	31.09	58.647			
4,300.00	4,220.21	4,572.23	4,537.89	15.82	16.28	166.86	161.16	1,172.22	1,830.78	1,798.97	31.82	57.543			
4,400.00	4,316.90	4,671.92	4,636.00	16.21	16.66	166.90	165.41	1,155.04	1,838.62	1,806.04	32.58	56.433			
4,500.00	4,413.58	4,816.64	4,777.95	16.61	17.21	166.88	174.49	1,128.43	1,845.38	1,811.90	33.48	55.112			
4,600.00	4,510.27	4,892.00	4,851.89	17.00	17.49	166.87	178.92	1,114.56	1,851.86	1,817.68	34.18	54.180			
4,700.00	4,606.96	4,967.42	4,926.06	17.39	17.77	166.89	182.59	1,101.34	1,859.32	1,824.46	34.87	53.324			
4,800.00	4,703.64	5,061.47	5,018.63	17.79	18.13	166.92	186.93	1,085.37	1,867.42	1,831.80	35.62	52.433			
4,900.00	4,800.33	5,160.50	5,116.04	18.18	18.50	166.90	193.30	1,068.67	1,875.64	1,839.26	36.38	51.558			
5,000.00	4,897.01	5,245.47	5,199.60	18.58	18.82	166.86	199.66	1,054.62	1,884.20	1,847.10	37.09	50.796			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-26 Federal Com 3H - OH - Svy														Offset Site Error:	0.00 usft
Survey Program:		200-MWD+IFR1+MS		Semi Major Axis		Highside Tooface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:	0.00 usft
Reference	Offset	Reference	Offset	Reference	Offset		Between Centres (usft)	Between Ellipses (usft)							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)		+N/-S (usft)	+E/-W (usft)							
5,100.00	4,993.70	5,304.56	5,257.86	18.97	19.04	166.84	203.47	1,045.57	1,894.09	1,856.39	37.71	50.234			
5,200.00	5,090.38	5,362.00	5,314.79	19.37	19.25	166.86	206.07	1,038.40	1,906.54	1,868.25	38.29	49.787			
5,300.00	5,187.07	5,394.21	5,346.83	19.76	19.37	166.89	207.19	1,035.28	1,921.70	1,882.96	38.74	49.603			
5,400.00	5,283.76	5,457.00	5,409.47	20.16	19.59	166.93	209.32	1,031.71	1,940.45	1,901.14	39.31	49.366			
5,500.00	5,380.44	5,457.00	5,409.47	20.55	19.59	166.93	209.32	1,031.71	1,961.48	1,921.98	39.50	49.652			
5,600.00	5,477.13	5,505.26	5,457.70	20.95	19.75	166.97	210.67	1,031.20	1,985.77	1,945.85	39.92	49.741			
5,700.00	5,573.81	5,551.00	5,503.42	21.35	19.91	167.03	211.47	1,032.53	2,013.16	1,972.86	40.30	49.951			
5,800.00	5,670.50	5,598.71	5,551.06	21.74	20.05	167.09	212.02	1,035.08	2,042.90	2,002.24	40.67	50.236			
5,900.00	5,767.19	5,672.07	5,624.26	22.14	20.28	167.19	212.72	1,039.88	2,074.09	2,032.90	41.19	50.355			
6,000.00	5,863.87	5,829.13	5,781.01	22.54	20.77	167.43	213.31	1,049.43	2,105.29	2,063.02	42.27	49.807			
6,100.00	5,960.56	5,978.85	5,930.68	22.93	21.24	167.71	211.51	1,052.78	2,132.23	2,088.94	43.29	49.254			
6,200.00	6,057.24	6,071.63	6,023.45	23.33	21.53	167.88	210.24	1,054.08	2,158.60	2,114.64	43.96	49.102			
6,300.00	6,153.93	6,173.10	6,124.89	23.73	21.85	168.07	208.74	1,055.68	2,185.17	2,140.48	44.69	48.900			
6,400.00	6,250.61	6,278.23	6,230.00	24.13	22.19	168.25	207.36	1,056.75	2,211.19	2,165.75	45.44	48.666			
6,500.00	6,347.30	6,411.00	6,362.77	24.52	22.63	168.44	207.16	1,057.12	2,236.56	2,190.20	46.36	48.244			
6,600.00	6,443.99	6,522.09	6,473.85	24.92	23.02	168.57	207.83	1,055.94	2,260.56	2,213.39	47.17	47.924			
6,700.00	6,540.67	6,614.62	6,566.38	25.32	23.34	168.70	207.58	1,054.79	2,284.42	2,236.55	47.87	47.723			
6,800.00	6,637.36	6,726.67	6,678.36	25.72	23.72	168.91	205.18	1,053.43	2,308.44	2,259.76	48.68	47.423			
6,900.00	6,734.04	6,812.73	6,763.26	26.11	24.00	169.35	191.89	1,051.11	2,331.53	2,282.20	49.32	47.271			
7,000.00	6,830.73	6,871.00	6,818.89	26.51	24.18	169.85	174.69	1,050.36	2,356.55	2,306.76	49.79	47.328			
7,100.00	6,927.42	6,900.43	6,846.16	26.91	24.26	170.16	163.63	1,050.43	2,383.75	2,333.69	50.06	47.619			
7,200.00	7,024.10	6,937.24	6,879.47	27.31	24.36	170.58	147.97	1,051.03	2,413.46	2,363.12	50.34	47.947			
7,300.00	7,120.78	6,997.06	6,931.44	27.70	24.51	-163.09	118.46	1,052.83	2,445.65	2,394.92	50.72	48.215			
7,400.00	7,216.15	7,089.10	7,006.22	28.08	24.72	-131.24	64.91	1,053.89	2,477.75	2,426.48	51.26	48.333			
7,500.00	7,307.37	7,152.00	7,053.10	28.42	24.85	-113.11	23.01	1,054.57	2,509.90	2,458.31	51.58	48.657			
7,600.00	7,391.67	7,238.66	7,115.55	28.72	25.01	-102.01	-37.07	1,055.66	2,540.36	2,488.34	52.02	48.838			
7,700.00	7,466.49	7,341.00	7,185.06	28.97	25.24	-94.75	-112.04	1,055.48	2,566.68	2,514.16	52.52	48.871			
7,800.00	7,529.56	7,386.64	7,212.45	29.18	25.35	-89.80	-148.54	1,055.10	2,589.35	2,536.68	52.67	49.161			
7,900.00	7,578.96	7,434.00	7,238.66	29.35	25.47	-86.35	-187.97	1,055.37	2,608.83	2,556.00	52.83	49.381			
8,000.00	7,613.19	7,535.15	7,281.37	29.50	25.69	-84.22	-279.38	1,054.65	2,623.54	2,570.33	53.21	49.308			
8,100.00	7,631.21	7,623.00	7,308.58	29.65	25.87	-83.23	-362.87	1,052.13	2,631.76	2,578.26	53.50	49.192			
8,200.00	7,634.00	7,677.71	7,322.83	29.80	25.98	-83.21	-415.67	1,050.73	2,635.43	2,581.74	53.69	49.086			
8,300.00	7,634.00	7,727.19	7,332.54	29.95	26.08	-83.43	-464.17	1,050.12	2,640.14	2,586.27	53.86	49.015			
8,400.00	7,634.00	7,786.88	7,339.26	30.12	26.19	-83.59	-523.46	1,049.67	2,646.17	2,592.13	54.05	48.962			
8,500.00	7,634.00	7,846.89	7,342.13	30.30	26.30	-83.67	-583.39	1,049.82	2,650.97	2,596.75	54.22	48.896			
8,600.00	7,634.00	7,906.00	7,343.31	30.49	26.41	-83.71	-642.48	1,050.46	2,653.59	2,599.21	54.39	48.790			
8,700.00	7,634.00	8,122.00	7,346.17	30.68	26.87	-83.76	-858.40	1,048.01	2,650.88	2,595.84	55.05	48.158			
8,800.00	7,634.00	8,216.00	7,346.27	30.89	27.09	-83.76	-952.38	1,045.85	2,648.25	2,592.85	55.39	47.808			
8,900.00	7,634.00	8,284.60	7,345.75	31.11	27.27	-83.75	-1,020.97	1,044.70	2,646.31	2,590.63	55.68	47.524			
9,000.00	7,634.00	8,385.44	7,344.47	31.34	27.54	-83.72	-1,121.79	1,043.64	2,645.07	2,588.96	56.12	47.135			
9,092.52	7,634.00	8,434.19	7,344.05	31.57	27.68	-83.70	-1,170.54	1,043.26	2,644.32	2,587.95	56.37	46.910			
9,100.00	7,634.00	8,437.08	7,343.99	31.59	27.69	-83.70	-1,173.42	1,043.28	2,644.34	2,587.96	56.39	46.898			
9,200.00	7,634.00	8,500.00	7,341.52	31.85	27.87	-83.65	-1,236.28	1,044.66	2,646.18	2,589.48	56.71	46.665			
9,300.00	7,634.00	8,552.74	7,338.58	32.13	28.04	-83.59	-1,288.91	1,046.56	2,649.50	2,592.50	57.00	46.482			
9,400.00	7,634.00	8,687.08	7,332.35	32.41	28.48	-83.47	-1,423.04	1,050.20	2,652.37	2,594.68	57.69	45.974			
9,500.00	7,634.00	8,761.36	7,329.28	32.72	28.73	-83.41	-1,497.23	1,052.15	2,655.13	2,596.99	58.14	45.669			
9,600.00	7,634.00	8,904.82	7,324.22	33.03	29.25	-83.30	-1,640.55	1,055.44	2,657.45	2,598.47	58.98	45.059			
9,700.00	7,634.00	8,980.18	7,322.08	33.36	29.53	-83.26	-1,715.86	1,057.06	2,659.57	2,600.09	59.48	44.711			
9,800.00	7,634.00	9,160.00	7,317.42	33.70	30.22	-83.17	-1,895.58	1,060.08	2,661.70	2,601.06	60.64	43.895			
9,839.24	7,634.00	9,187.27	7,317.36	33.84	30.34	-83.17	-1,922.85	1,060.04	2,661.55	2,600.70	60.85	43.739			
9,900.00	7,634.00	9,219.51	7,317.00	34.05	30.47	-83.16	-1,955.08	1,060.28	2,661.88	2,600.76	61.12	43.555			
10,000.00	7,634.00	9,348.58	7,314.09	34.42	31.00	-83.10	-2,084.11	1,061.95	2,663.30	2,601.26	62.05	42.925			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-26 Federal Com 3H - OH - Svy

Survey Program: 200-MWD+IFR1+MS											Offset Site Error:	0.00 usft	
Reference											Offset Well Error:	0.00 usft	
Offset				Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,007.60	7,634.00	9,326.62	7,314.59	34.45	30.91	-83.11	-2,062.15	1,061.70	2,663.23	2,601.31	61.91	43.015	
10,100.00	7,634.00	9,426.16	7,313.65	34.80	31.34	-83.09	-2,161.69	1,062.47	2,663.71	2,601.03	62.68	42.495	
10,200.00	7,634.00	9,513.17	7,314.16	35.19	31.72	-83.11	-2,248.68	1,063.79	2,664.81	2,601.40	63.41	42.025	
10,300.00	7,634.00	9,579.15	7,313.35	35.59	32.01	-83.09	-2,314.64	1,065.09	2,666.65	2,602.65	64.00	41.668	
10,400.00	7,634.00	9,642.13	7,311.54	36.00	32.30	-83.06	-2,377.56	1,067.24	2,670.01	2,605.44	64.57	41.352	
10,500.00	7,634.00	9,817.00	7,305.75	36.43	33.13	-82.95	-2,552.23	1,072.74	2,673.67	2,607.68	65.99	40.519	
10,600.00	7,634.00	9,883.99	7,304.65	36.86	33.45	-82.93	-2,619.20	1,073.88	2,675.31	2,608.68	66.63	40.149	
10,700.00	7,634.00	9,992.28	7,302.12	37.30	33.99	-82.88	-2,727.43	1,076.40	2,677.58	2,609.96	67.61	39.601	
10,800.00	7,634.00	10,100.00	7,299.74	37.76	34.53	-82.83	-2,835.10	1,078.19	2,679.15	2,610.53	68.61	39.048	
10,900.00	7,634.00	10,343.07	7,287.31	38.22	35.80	-82.55	-3,077.69	1,072.90	2,675.90	2,605.23	70.67	37.866	
11,000.00	7,634.00	10,383.00	7,285.60	38.70	36.02	-82.51	-3,117.57	1,071.75	2,673.41	2,602.24	71.17	37.562	
11,100.00	7,634.00	10,464.97	7,282.42	39.18	36.46	-82.44	-3,199.47	1,070.63	2,672.28	2,600.26	72.02	37.104	
11,200.00	7,634.00	10,565.28	7,279.44	39.67	37.01	-82.37	-3,299.73	1,070.05	2,671.77	2,598.74	73.04	36.580	
11,254.11	7,634.00	10,595.96	7,278.59	39.94	37.18	-82.36	-3,330.40	1,069.96	2,671.66	2,598.26	73.40	36.398	
11,300.00	7,634.00	10,619.40	7,277.07	40.17	37.31	-82.32	-3,353.78	1,070.00	2,671.98	2,598.30	73.68	36.266	
11,400.00	7,634.00	10,666.00	7,271.78	40.67	37.57	-82.21	-3,400.08	1,070.35	2,674.02	2,599.81	74.22	36.029	
11,500.00	7,634.00	10,739.86	7,259.35	41.19	38.00	-81.95	-3,472.87	1,071.42	2,677.54	2,602.57	74.97	35.714	
11,600.00	7,634.00	11,052.72	7,237.24	41.71	39.81	-81.47	-3,783.95	1,069.47	2,677.37	2,599.52	77.85	34.390	
11,700.00	7,634.00	11,102.80	7,238.16	42.24	40.10	-81.49	-3,834.01	1,068.47	2,674.68	2,596.14	78.54	34.055	
11,800.00	7,634.00	11,177.93	7,239.74	42.78	40.54	-81.52	-3,909.12	1,068.09	2,673.47	2,594.01	79.45	33.648	
11,900.00	7,634.00	11,276.22	7,240.37	43.32	41.11	-81.53	-4,007.41	1,067.55	2,672.50	2,591.92	80.58	33.165	
12,000.00	7,634.00	11,359.86	7,240.52	43.87	41.61	-81.53	-4,091.05	1,067.26	2,671.82	2,590.24	81.58	32.751	
12,027.62	7,634.00	11,380.03	7,240.57	44.03	41.73	-81.53	-4,111.22	1,067.30	2,671.78	2,589.95	81.83	32.650	
12,100.00	7,634.00	11,418.00	7,240.70	44.43	41.95	-81.54	-4,149.19	1,067.55	2,672.10	2,589.76	82.34	32.452	
12,200.00	7,634.00	11,513.00	7,240.59	44.99	42.52	-81.54	-4,244.17	1,069.13	2,673.43	2,589.97	83.46	32.031	
12,300.00	7,634.00	11,593.54	7,239.55	45.56	43.01	-81.52	-4,324.68	1,071.00	2,675.54	2,591.09	84.45	31.683	
12,400.00	7,634.00	11,705.59	7,236.13	46.13	43.70	-81.45	-4,436.66	1,073.14	2,677.55	2,591.81	85.74	31.227	
12,500.00	7,634.00	11,806.08	7,232.11	46.71	44.32	-81.37	-4,537.05	1,074.69	2,679.35	2,592.42	86.93	30.821	
12,600.00	7,634.00	11,925.18	7,229.07	47.30	45.06	-81.31	-4,656.10	1,076.13	2,680.57	2,592.25	88.33	30.349	
12,700.00	7,634.00	12,016.88	7,227.30	47.89	45.64	-81.28	-4,747.78	1,077.20	2,681.71	2,592.25	89.46	29.978	
12,800.00	7,634.00	12,128.25	7,224.50	48.48	46.34	-81.22	-4,859.10	1,078.77	2,683.25	2,592.46	90.79	29.554	
12,900.00	7,634.00	12,240.96	7,222.09	49.08	47.06	-81.17	-4,971.78	1,079.21	2,684.80	2,592.65	92.15	29.135	
13,000.00	7,634.00	12,385.21	7,215.82	49.68	47.98	-81.04	-5,115.88	1,077.93	2,685.44	2,591.63	93.81	28.626	
13,100.00	7,634.00	12,456.00	7,215.03	50.29	48.44	-81.03	-5,186.66	1,077.82	2,686.28	2,591.51	94.77	28.344	
13,200.00	7,634.00	12,537.22	7,215.37	50.91	48.96	-81.04	-5,267.87	1,078.64	2,688.05	2,592.20	95.85	28.044	
13,300.00	7,634.00	12,615.02	7,215.58	51.52	49.46	-81.05	-5,345.67	1,079.65	2,690.23	2,593.34	96.90	27.764	
13,400.00	7,634.00	12,725.86	7,215.25	52.15	50.18	-81.05	-5,456.50	1,081.61	2,692.97	2,594.67	98.30	27.396	
13,500.00	7,634.00	12,855.01	7,213.80	52.77	51.03	-81.03	-5,585.62	1,082.45	2,694.71	2,594.82	99.89	26.977	
13,600.00	7,634.00	13,020.28	7,211.17	53.40	52.12	-80.97	-5,750.85	1,080.55	2,694.78	2,592.95	101.84	26.462	
13,700.00	7,634.00	13,109.56	7,211.45	54.03	52.71	-80.97	-5,840.12	1,078.78	2,693.70	2,590.67	103.04	26.143	
13,800.00	7,634.00	13,213.00	7,213.90	54.67	53.40	-81.02	-5,943.51	1,077.08	2,692.62	2,588.22	104.40	25.791	
13,900.00	7,634.00	13,291.26	7,215.57	55.30	53.92	-81.06	-6,021.74	1,076.00	2,691.88	2,586.37	105.51	25.513	
13,921.50	7,634.00	13,308.00	7,215.76	55.44	54.03	-81.06	-6,038.48	1,075.86	2,691.87	2,586.12	105.75	25.456	
14,000.00	7,634.00	13,371.96	7,215.99	55.95	54.46	-81.07	-6,102.44	1,075.51	2,692.10	2,585.47	106.63	25.246	
14,100.00	7,634.00	13,462.65	7,215.45	56.59	55.07	-81.06	-6,193.12	1,075.28	2,692.86	2,585.00	107.86	24.967	
14,200.00	7,634.00	13,566.77	7,214.74	57.24	55.77	-81.05	-6,297.24	1,075.12	2,693.73	2,584.50	109.23	24.661	
14,300.00	7,634.00	13,658.42	7,213.86	57.89	56.39	-81.03	-6,388.89	1,074.88	2,694.55	2,584.08	110.47	24.391	
14,400.00	7,634.00	13,771.00	7,213.81	58.54	57.15	-81.03	-6,501.47	1,074.90	2,695.51	2,583.55	111.95	24.077	
14,500.00	7,634.00	13,901.57	7,213.59	59.20	58.04	-81.03	-6,632.02	1,073.40	2,695.25	2,581.63	113.62	23.722	
14,600.00	7,634.00	13,996.97	7,212.73	59.86	58.69	-81.01	-6,727.41	1,072.11	2,694.96	2,580.04	114.92	23.451	
14,700.00	7,634.00	14,108.44	7,212.45	60.52	59.45	-81.00	-6,838.87	1,070.08	2,694.09	2,577.70	116.39	23.147	
14,800.00	7,634.00	14,197.45	7,213.56	61.18	60.06	-81.02	-6,927.86	1,068.92	2,693.53	2,575.88	117.64	22.895	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-26 Federal Com 3H - OH - Svy

Survey Program: 200-MWD+IFR1+MS
 Reference: 200-MWD+IFR1+MS
 Rule Assigned: Minimum Curvature
 Offset Site Error: 0.00 usft
 Offset Well Error: 0.00 usft

Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,900.00	7,634.00	14,293.06	7,213.67	61.85	60.72	-81.02	-7,023.46	1,067.75	2,693.21	2,574.25	118.96	22.639	
15,000.00	7,634.00	14,416.14	7,214.62	62.51	61.57	-81.04	-7,146.52	1,066.19	2,692.80	2,572.22	120.58	22.332	
15,100.00	7,634.00	14,507.55	7,215.61	63.18	62.20	-81.06	-7,237.91	1,064.46	2,691.70	2,569.83	121.87	22.087	
15,180.06	7,634.00	14,566.60	7,215.70	63.72	62.61	-81.06	-7,296.96	1,063.66	2,691.35	2,568.60	122.75	21.926	
15,200.00	7,634.00	14,580.42	7,215.64	63.86	62.71	-81.06	-7,310.78	1,063.54	2,691.37	2,568.42	122.96	21.889	
15,300.00	7,634.00	14,688.60	7,214.45	64.53	63.46	-81.03	-7,418.95	1,062.91	2,691.93	2,567.51	124.42	21.636	
15,400.00	7,634.00	14,845.23	7,217.55	65.21	64.56	-81.09	-7,575.46	1,059.70	2,690.34	2,563.93	126.41	21.282	
15,500.00	7,634.00	14,927.02	7,223.57	65.88	65.13	-81.22	-7,657.02	1,058.36	2,688.55	2,560.89	127.66	21.060	
15,600.00	7,634.00	15,004.00	7,229.35	66.56	65.68	-81.34	-7,733.78	1,057.64	2,687.50	2,558.64	128.86	20.857	
15,667.02	7,634.00	15,056.14	7,232.99	67.02	66.05	-81.42	-7,785.79	1,057.49	2,687.27	2,557.61	129.66	20.726	
15,700.00	7,634.00	15,080.24	7,234.68	67.24	66.22	-81.45	-7,809.83	1,057.54	2,687.33	2,557.29	130.03	20.666	
15,800.00	7,634.00	15,209.22	7,242.96	67.93	67.14	-81.63	-7,938.54	1,057.48	2,687.38	2,555.57	131.81	20.388	
15,900.00	7,634.00	15,306.11	7,248.34	68.61	67.82	-81.75	-8,035.28	1,056.79	2,686.85	2,553.63	133.22	20.169	
16,000.00	7,634.00	15,408.54	7,254.96	69.30	68.55	-81.89	-8,137.49	1,055.91	2,686.06	2,551.36	134.70	19.941	
16,092.13	7,634.00	15,476.00	7,259.54	69.93	69.03	-81.99	-8,204.79	1,055.62	2,685.73	2,549.98	135.76	19.783	
16,100.00	7,634.00	15,488.21	7,260.35	69.99	69.12	-82.00	-8,216.98	1,055.61	2,685.73	2,549.80	135.92	19.759	
16,200.00	7,634.00	15,571.00	7,265.19	70.68	69.71	-82.11	-8,299.62	1,055.95	2,686.28	2,549.10	137.18	19.583	
16,300.00	7,634.00	15,659.64	7,268.54	71.37	70.34	-82.18	-8,388.19	1,056.53	2,687.38	2,548.90	138.48	19.406	
16,400.00	7,634.00	15,789.02	7,272.56	72.06	71.27	-82.27	-8,517.51	1,056.35	2,687.77	2,547.51	140.26	19.163	
16,500.00	7,634.00	15,878.45	7,275.00	72.76	71.90	-82.32	-8,606.91	1,056.01	2,688.01	2,546.44	141.57	18.987	
16,600.00	7,634.00	15,973.23	7,277.47	73.45	72.58	-82.38	-8,701.66	1,056.00	2,688.63	2,545.68	142.95	18.808	
16,700.00	7,634.00	16,082.95	7,280.00	74.15	73.37	-82.44	-8,811.35	1,055.67	2,689.02	2,544.52	144.50	18.609	
16,800.00	7,634.00	16,188.10	7,281.72	74.85	74.12	-82.47	-8,916.48	1,055.09	2,689.25	2,543.26	145.99	18.421	
16,900.00	7,634.00	16,281.60	7,283.35	75.55	74.79	-82.51	-9,009.96	1,054.44	2,689.33	2,541.98	147.35	18.251	
17,000.00	7,634.00	16,365.78	7,284.77	76.25	75.39	-82.54	-9,094.13	1,054.33	2,689.97	2,541.36	148.61	18.101	
17,100.00	7,634.00	16,461.05	7,286.19	76.95	76.07	-82.57	-9,189.39	1,054.64	2,691.08	2,541.09	149.99	17.942	
17,200.00	7,634.00	16,569.47	7,287.72	77.65	76.85	-82.61	-9,297.80	1,054.76	2,692.00	2,540.47	151.53	17.765	
17,300.00	7,634.00	16,680.71	7,290.46	78.36	77.66	-82.67	-9,409.01	1,054.68	2,692.60	2,539.49	153.11	17.586	
17,400.00	7,634.00	16,768.26	7,293.02	79.06	78.29	-82.73	-9,496.51	1,054.57	2,693.12	2,538.70	154.42	17.440	
17,500.00	7,634.00	16,859.26	7,294.55	79.77	78.94	-82.76	-9,587.50	1,054.83	2,694.17	2,538.41	155.76	17.297	
17,600.00	7,634.00	16,956.41	7,295.26	80.48	79.64	-82.78	-9,684.65	1,055.15	2,695.39	2,538.22	157.17	17.149	
17,700.00	7,634.00	17,037.70	7,294.82	81.19	80.23	-82.77	-9,765.94	1,055.52	2,696.92	2,538.54	158.38	17.028	
17,800.00	7,634.00	17,133.65	7,293.30	81.90	80.93	-82.75	-9,861.87	1,056.55	2,699.17	2,539.40	159.77	16.895	
17,900.00	7,634.00	17,257.16	7,289.90	82.61	81.82	-82.68	-9,985.33	1,056.99	2,700.87	2,539.40	161.47	16.727	
18,000.00	7,634.00	17,315.00	7,288.70	83.32	82.24	-82.66	-10,043.16	1,056.94	2,702.40	2,540.01	162.39	16.641	SF
18,100.00	7,634.00	17,315.00	7,288.70	84.03	82.24	-82.66	-10,043.16	1,056.94	2,707.14	2,544.67	162.47	16.662	
18,200.00	7,634.00	17,315.00	7,288.70	84.74	82.24	-82.66	-10,043.16	1,056.94	2,715.71	2,553.34	162.37	16.725	
18,300.00	7,634.00	17,315.00	7,288.70	85.46	82.24	-82.66	-10,043.16	1,056.94	2,727.92	2,565.83	162.09	16.830	
18,400.00	7,634.00	17,315.00	7,288.70	86.17	82.24	-82.66	-10,043.16	1,056.94	2,743.72	2,582.09	161.63	16.976	
18,500.00	7,634.00	17,315.00	7,288.70	86.89	82.24	-82.66	-10,043.16	1,056.94	2,763.05	2,602.05	161.00	17.162	
18,600.00	7,634.00	17,315.00	7,288.70	87.60	82.24	-82.66	-10,043.16	1,056.94	2,785.84	2,625.63	160.21	17.389	
18,700.00	7,634.00	17,315.00	7,288.70	88.32	82.24	-82.66	-10,043.16	1,056.94	2,812.01	2,652.73	159.28	17.655	
18,800.00	7,634.00	17,315.00	7,288.70	89.04	82.24	-82.66	-10,043.16	1,056.94	2,841.45	2,683.24	158.21	17.960	
18,900.00	7,634.00	17,315.00	7,288.70	89.76	82.24	-82.66	-10,043.16	1,056.94	2,874.07	2,717.05	157.02	18.304	
19,000.00	7,634.00	17,315.00	7,288.70	90.48	82.24	-82.66	-10,043.16	1,056.94	2,909.77	2,754.04	155.73	18.685	
19,100.00	7,634.00	17,315.00	7,288.70	91.20	82.24	-82.66	-10,043.16	1,056.94	2,948.43	2,794.09	154.34	19.104	
19,200.00	7,634.00	17,315.00	7,288.70	91.92	82.24	-82.66	-10,043.16	1,056.94	2,989.93	2,837.06	152.87	19.559	
19,300.00	7,634.00	17,315.00	7,288.70	92.64	82.24	-82.66	-10,043.16	1,056.94	3,034.16	2,882.83	151.33	20.050	
19,400.00	7,634.00	17,315.00	7,288.70	93.37	82.24	-82.66	-10,043.16	1,056.94	3,081.01	2,931.26	149.74	20.575	
19,500.00	7,634.00	17,315.00	7,288.70	94.09	82.24	-82.66	-10,043.16	1,056.94	3,130.35	2,982.24	148.11	21.135	
19,600.00	7,634.00	17,315.00	7,288.70	94.81	82.24	-82.66	-10,043.16	1,056.94	3,182.06	3,035.62	146.45	21.729	
19,700.00	7,634.00	17,315.00	7,288.70	95.54	82.24	-82.66	-10,043.16	1,056.94	3,236.05	3,091.28	144.76	22.354	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-26 Federal Com 3H - OH - Svy

Survey Program: 200-MWD+IFR1+MS													Offset Site Error:	0.00 usft	
Reference													Offset Well Error:	0.00 usft	
Measured Vertical				Measured Vertical		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)			
19,800.00	7,634.00	17,315.00	7,288.70	96.26	82.24	-82.66	-10,043.16	1,056.94	3,292.18	3,149.12	143.06	23.012			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-26 Federal Com 5H - OH - Svy, Offset Site Error: 0.00 usft, Offset Well Error: 0.00 usft

Table with columns: Survey Program, Reference, Measured Vertical, Offset Vertical, Semi Major Axis Reference, Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Between Ellipses), Minimum Separation, Separation Factor, Warning. Rows represent depth intervals from 0.00 to 5,000.00 usft.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-26 Federal Com 5H - OH - Svy

Survey Program:		Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)								(usft)	(usft)	(usft)			
5,100.00	4,993.70	4,571.46	4,544.21	18.97	16.03	163.78			311.00	2,142.83	3,009.11	2,975.17	33.94	88.655		
5,200.00	5,090.38	4,704.83	4,675.92	19.37	16.52	163.79			320.66	2,161.46	3,047.33	3,012.45	34.88	87.370		
5,300.00	5,187.07	4,807.80	4,777.76	19.76	16.90	163.82			327.49	2,175.01	3,084.76	3,049.11	35.65	86.539		
5,400.00	5,283.76	4,952.04	4,920.68	20.16	17.43	163.88			335.48	2,192.62	3,121.26	3,084.62	36.63	85.205		
5,500.00	5,380.44	5,151.01	5,118.68	20.55	18.15	164.06			341.01	2,211.31	3,154.50	3,116.62	37.88	83.282		
5,600.00	5,477.13	5,507.54	5,474.57	20.95	19.40	164.50			343.28	2,229.25	3,186.30	3,146.56	39.74	80.187		
5,700.00	5,573.81	5,642.94	5,609.96	21.35	19.84	164.68			342.51	2,228.50	3,210.38	3,169.80	40.58	79.113		
5,800.00	5,670.50	5,737.00	5,704.02	21.74	20.14	164.80			342.28	2,227.33	3,233.86	3,192.59	41.27	78.359		
5,900.00	5,767.19	5,801.39	5,768.41	22.14	20.36	164.87			342.59	2,226.87	3,257.93	3,216.07	41.86	77.835		
6,000.00	5,863.87	5,866.76	5,833.77	22.54	20.58	164.93			343.66	2,227.18	3,283.12	3,240.68	42.45	77.346		
6,100.00	5,960.56	5,926.00	5,892.99	22.93	20.79	164.98			344.74	2,227.85	3,309.10	3,266.09	43.01	76.937		
6,200.00	6,057.24	6,021.00	5,987.96	23.33	21.13	165.07			346.08	2,229.76	3,335.80	3,292.08	43.73	76.288	SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Anticollision Report

Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-35 Federal Com 6H - OH - Svy

Survey Program: 200-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:
Reference	Vertical	Measured	Vertical	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)									
0.00	0.00	0.00	12.50	0.00	0.00	88.92	32.71	1,729.52	1,729.87					
100.00	100.00	95.52	108.01	0.28	0.15	88.92	32.68	1,729.30	1,729.63	1,729.20	0.43	4,042.308		
200.00	200.00	204.67	217.17	0.63	0.33	88.92	32.57	1,728.51	1,728.90	1,727.94	0.96	1,801.635		
300.00	300.00	311.14	323.63	0.99	0.72	88.92	32.66	1,727.26	1,727.73	1,726.02	1.71	1,011.058		
400.00	400.00	412.78	425.26	1.35	1.08	88.91	32.86	1,725.64	1,726.14	1,723.71	2.43	710.108		
500.00	500.00	491.46	503.93	1.71	1.36	88.91	32.69	1,724.99	1,725.31	1,722.24	3.07	562.437		
522.93	522.93	510.46	522.93	1.79	1.42	88.92	32.58	1,724.97	1,725.28	1,722.07	3.22	536.602	CC	
600.00	600.00	575.14	587.61	2.07	1.65	88.93	32.07	1,725.23	1,725.58	1,721.86	3.71	464.639	ES	
700.00	700.00	674.15	686.61	2.43	1.98	88.96	31.41	1,725.99	1,726.32	1,721.91	4.41	391.609		
800.00	800.00	771.99	784.45	2.79	2.32	88.98	30.89	1,726.79	1,727.13	1,722.03	5.10	338.467		
900.00	900.00	869.32	881.77	3.14	2.65	88.98	30.70	1,727.74	1,728.11	1,722.31	5.80	298.081		
1,000.00	1,000.00	968.08	980.53	3.50	3.00	88.98	30.84	1,728.84	1,729.22	1,722.73	6.50	266.124		
1,100.00	1,100.00	1,048.78	1,061.22	3.86	3.28	88.97	31.14	1,729.91	1,730.62	1,723.49	7.14	242.511		
1,200.00	1,200.00	1,111.00	1,123.40	4.22	3.49	88.96	31.45	1,732.01	1,733.99	1,726.28	7.71	224.951		
1,300.00	1,300.00	1,165.48	1,177.79	4.58	3.69	88.95	31.86	1,735.15	1,739.74	1,731.49	8.25	210.882		
1,400.00	1,400.00	1,230.11	1,242.19	4.94	3.92	88.93	32.62	1,740.52	1,747.96	1,739.13	8.82	198.084		
1,500.00	1,499.98	1,318.52	1,330.20	5.29	4.23	166.13	34.21	1,748.72	1,758.96	1,749.48	9.48	185.479		
1,600.00	1,599.84	1,404.44	1,415.66	5.64	4.53	166.03	36.40	1,757.34	1,774.08	1,763.95	10.13	175.147		
1,700.00	1,699.45	1,504.75	1,515.40	5.98	4.89	165.90	39.91	1,767.48	1,792.64	1,781.80	10.83	165.503		
1,800.00	1,798.70	1,582.00	1,592.13	6.34	5.16	165.76	43.05	1,775.81	1,815.17	1,803.73	11.44	158.629		
1,900.00	1,897.47	1,653.79	1,663.34	6.69	5.42	165.63	45.95	1,784.42	1,842.18	1,830.15	12.03	153.129		
2,000.00	1,995.62	1,752.86	1,761.49	7.05	5.78	165.47	50.69	1,797.03	1,873.15	1,860.42	12.73	147.144		
2,100.00	2,093.06	1,853.23	1,860.87	7.41	6.14	165.24	58.33	1,808.81	1,906.43	1,892.99	13.44	141.889		
2,200.00	2,189.81	1,921.34	1,928.22	7.77	6.38	165.13	63.80	1,817.40	1,943.16	1,929.15	14.00	138.759		
2,300.00	2,286.50	1,993.00	1,998.95	8.14	6.64	165.11	69.60	1,827.32	1,981.26	1,966.68	14.58	135.886		
2,400.00	2,383.18	2,073.68	2,078.44	8.51	6.93	165.07	76.55	1,839.17	2,020.18	2,004.98	15.20	132.915		
2,500.00	2,479.87	2,168.63	2,171.98	8.88	7.28	165.01	84.85	1,853.27	2,059.26	2,043.38	15.89	129.622		
2,600.00	2,576.55	2,274.71	2,276.55	9.25	7.66	164.96	94.09	1,868.57	2,097.95	2,081.32	16.63	126.156		
2,700.00	2,673.24	2,381.27	2,381.70	9.63	8.05	164.91	103.23	1,883.16	2,135.95	2,118.58	17.38	122.906		
2,800.00	2,769.92	2,449.96	2,449.49	10.01	8.30	164.88	109.13	1,892.54	2,173.99	2,156.04	17.95	121.095		
2,900.00	2,866.61	2,505.09	2,503.77	10.39	8.50	164.86	113.74	1,900.99	2,213.51	2,195.05	18.46	119.919		
3,000.00	2,963.30	2,594.95	2,592.07	10.77	8.83	164.83	121.20	1,915.92	2,254.21	2,235.08	19.14	117.804		
3,100.00	3,059.98	2,714.70	2,709.88	11.15	9.28	164.78	131.79	1,934.54	2,293.94	2,273.98	19.96	114.904		
3,200.00	3,156.67	2,789.96	2,783.99	11.54	9.55	164.75	138.15	1,946.05	2,333.44	2,312.87	20.57	113.428		
3,300.00	3,253.35	2,881.87	2,874.46	11.92	9.89	164.74	145.15	1,960.65	2,373.46	2,352.20	21.27	111.612		
3,400.00	3,350.04	2,988.24	2,979.25	12.31	10.29	164.73	153.24	1,977.08	2,413.07	2,391.04	22.03	109.516		
3,500.00	3,446.73	3,085.57	3,075.17	12.70	10.65	164.72	160.80	1,991.67	2,452.26	2,429.50	22.76	107.754		
3,600.00	3,543.41	3,219.28	3,207.14	13.09	11.14	164.71	170.83	2,010.66	2,490.74	2,467.08	23.67	105.243		
3,700.00	3,640.10	3,288.00	3,275.11	13.48	11.39	164.70	176.02	2,019.39	2,528.03	2,503.79	24.25	104.261		
3,800.00	3,736.78	3,349.13	3,335.47	13.86	11.62	164.69	180.68	2,027.80	2,566.40	2,541.62	24.79	103.538		
3,900.00	3,833.47	3,398.65	3,384.17	14.26	11.80	164.69	184.44	2,036.00	2,606.89	2,581.63	25.26	103.199		
4,000.00	3,930.15	3,515.71	3,499.25	14.65	12.24	164.67	193.72	2,055.29	2,647.46	2,621.36	26.10	101.439		
4,100.00	4,026.84	3,638.46	3,620.12	15.04	12.70	164.65	203.38	2,074.35	2,687.17	2,660.20	26.97	99.648		
4,200.00	4,123.53	3,774.78	3,754.66	15.43	13.20	164.63	214.15	2,093.55	2,725.52	2,697.62	27.90	97.680		
4,300.00	4,220.21	3,816.62	3,795.91	15.82	13.36	164.62	217.49	2,099.67	2,764.15	2,735.81	28.34	97.525		
4,400.00	4,316.90	3,885.74	3,863.93	16.21	13.62	164.61	223.27	2,110.57	2,804.02	2,775.10	28.92	96.943		
4,500.00	4,413.58	4,028.54	4,004.57	16.61	14.15	164.58	235.11	2,132.27	2,843.52	2,813.62	29.91	95.083		
4,600.00	4,510.27	4,135.00	4,109.78	17.00	14.54	164.56	243.43	2,146.22	2,880.85	2,850.16	30.69	93.876		
4,700.00	4,606.96	4,178.49	4,152.73	17.39	14.70	164.56	246.78	2,152.17	2,919.21	2,888.08	31.13	93.764		
4,800.00	4,703.64	4,229.00	4,202.31	17.79	14.89	164.55	250.88	2,160.84	2,959.94	2,928.33	31.61	93.638		
4,900.00	4,800.33	4,247.78	4,220.69	18.18	14.96	164.55	252.44	2,164.42	3,002.03	2,970.13	31.90	94.114		
5,000.00	4,897.01	4,353.91	4,324.49	18.58	15.36	164.52	261.49	2,184.58	3,044.99	3,012.29	32.69	93.138		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-35 Federal Com 6H - OH - Svy													Offset Site Error:	0.00 usft
Survey Program: 200-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,993.70	4,506.95	4,474.66	18.97	15.94	164.49	274.35	2,211.10	3,086.25	3,052.49	33.76	91.422		
5,200.00	5,090.38	4,605.00	4,571.16	19.37	16.31	164.48	281.94	2,226.69	3,126.24	3,091.74	34.50	90.606		
5,300.00	5,187.07	4,674.21	4,639.23	19.76	16.57	164.47	287.61	2,237.84	3,166.62	3,131.53	35.08	90.256		
5,400.00	5,283.76	4,735.41	4,699.19	20.16	16.80	164.45	293.44	2,248.59	3,208.22	3,172.60	35.62	90.072		
5,500.00	5,380.44	4,830.67	4,792.40	20.55	17.16	164.40	303.05	2,265.78	3,250.35	3,213.99	36.35	89.412		
5,600.00	5,477.13	4,964.26	4,923.38	20.95	17.66	164.34	316.42	2,288.40	3,291.37	3,254.06	37.31	88.217		
5,700.00	5,573.81	5,119.93	5,076.44	21.35	18.25	164.27	331.37	2,312.55	3,331.12	3,292.73	38.39	86.781	SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company: Coterra Energy, Project: Eddy County, NM (NAD 83), Reference Site: Pintail 23-26-35 Federal Com, Site Error: 0.00 usft, Reference Well: Pintail 23-26-35 Federal Com 12H, Well Error: 0.00 usft, Reference Wellbore: OH, Reference Design: Plan 1, Local Co-ordinate Reference: Well Pintail 23-26-35 Federal Com 12H, TVD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), MD Reference: 3300.5' GL + 23 @ 3323.50usft (Rig), North Reference: Grid, Survey Calculation Method: Minimum Curvature, Output errors are at: 2.00 sigma, Database: .Total Directional Production DB, Offset TVD Reference: Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-35 Federal Com 7H - OH - Svy

Table with columns: Survey Program, Reference, Measured Vertical Depth, Offset Vertical Depth, Semi Major Axis Reference, Semi Major Axis Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance Between Centres, Distance Between Ellipses, Minimum Separation, Separation Factor, Warning. Includes data rows from 0.00 to 5,000.00 depth.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional
Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-35 Federal Com 7H - OH - Svy												Offset Site Error:	0.00 usft
Survey Program: 200-MWD+IFR1+MS										Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	4,993.70	5,265.00	5,224.19	18.97	18.81	163.40	317.04	1,087.80	1,935.90	1,898.47	37.43	51.715	
5,200.00	5,090.38	5,331.51	5,290.15	19.37	19.05	163.41	320.92	1,080.20	1,949.55	1,911.50	38.05	51.235	
5,300.00	5,187.07	5,398.63	5,356.88	19.76	19.30	163.46	323.99	1,073.65	1,964.79	1,926.13	38.66	50.824	
5,400.00	5,283.76	5,454.00	5,412.04	20.16	19.50	163.52	325.59	1,069.13	1,981.69	1,942.49	39.20	50.555	
5,500.00	5,380.44	5,516.90	5,474.81	20.55	19.72	163.61	326.74	1,065.27	2,000.50	1,960.74	39.76	50.318	
5,600.00	5,477.13	5,573.88	5,531.74	20.95	19.92	163.71	327.54	1,063.16	2,021.49	1,981.22	40.27	50.198	
5,700.00	5,573.81	5,643.00	5,600.85	21.35	20.17	163.82	328.46	1,061.92	2,044.31	2,003.47	40.84	50.059	
5,800.00	5,670.50	5,714.57	5,672.41	21.74	20.41	163.94	329.31	1,061.57	2,068.41	2,027.00	41.41	49.951	
5,900.00	5,767.19	5,805.46	5,763.30	22.14	20.72	164.10	330.07	1,061.63	2,093.12	2,051.03	42.09	49.733	
6,000.00	5,863.87	5,911.47	5,869.31	22.54	21.09	164.30	330.52	1,061.65	2,117.78	2,074.93	42.86	49.416	
6,100.00	5,960.56	6,010.53	5,968.37	22.93	21.42	164.48	330.62	1,061.31	2,142.10	2,098.51	43.59	49.147	
6,200.00	6,057.24	6,100.44	6,058.27	23.33	21.72	164.66	330.31	1,061.12	2,166.55	2,122.30	44.25	48.960	
6,300.00	6,153.93	6,214.19	6,172.02	23.73	22.09	164.87	330.09	1,060.71	2,190.90	2,145.84	45.06	48.621	
6,400.00	6,250.61	6,325.02	6,282.84	24.13	22.48	165.06	330.41	1,059.39	2,214.45	2,168.59	45.87	48.281	
6,500.00	6,347.30	6,433.48	6,391.27	24.52	22.86	165.19	332.35	1,057.57	2,237.62	2,190.96	46.66	47.957	
6,600.00	6,443.99	6,541.18	6,498.92	24.92	23.24	165.31	334.64	1,054.98	2,260.07	2,212.62	47.45	47.632	
6,700.00	6,540.67	6,634.55	6,592.25	25.32	23.57	165.45	335.25	1,052.76	2,282.53	2,234.37	48.16	47.398	
6,800.00	6,637.36	6,720.32	6,678.01	25.72	23.87	165.59	335.22	1,050.98	2,305.28	2,256.46	48.82	47.222	
6,900.00	6,734.04	6,804.02	6,761.69	26.11	24.15	165.74	334.59	1,049.80	2,328.68	2,279.21	49.46	47.080	
7,000.00	6,830.73	6,896.08	6,853.74	26.51	24.46	165.92	333.17	1,048.87	2,352.47	2,302.32	50.15	46.910	
7,100.00	6,927.42	6,990.41	6,948.02	26.91	24.77	166.13	330.52	1,047.99	2,376.34	2,325.50	50.85	46.737	
7,200.00	7,024.10	7,071.94	7,029.51	27.31	25.04	166.32	327.86	1,047.49	2,400.57	2,349.11	51.46	46.645	
7,300.00	7,120.78	7,146.00	7,103.53	27.70	25.27	-168.45	325.41	1,047.84	2,426.13	2,374.10	52.03	46.626	
7,400.00	7,216.15	7,214.27	7,171.53	28.08	25.49	-138.25	319.82	1,048.90	2,453.81	2,401.26	52.55	46.699	
7,500.00	7,307.37	7,291.79	7,247.60	28.42	25.72	-121.24	305.25	1,050.73	2,482.72	2,429.64	53.08	46.771	
7,600.00	7,391.67	7,359.21	7,311.86	28.72	25.91	-110.92	285.07	1,052.88	2,512.07	2,458.54	53.53	46.930	
7,700.00	7,466.49	7,429.00	7,375.90	28.97	26.10	-103.93	257.62	1,056.38	2,541.86	2,487.90	53.96	47.110	
7,800.00	7,529.56	7,520.81	7,456.46	29.18	26.32	-99.10	213.94	1,061.53	2,570.59	2,516.11	54.48	47.184	
7,900.00	7,578.96	7,746.99	7,635.16	29.35	26.79	-96.93	76.22	1,065.19	2,591.66	2,536.04	55.62	46.595	
8,000.00	7,613.19	7,801.00	7,672.08	29.50	26.91	-94.41	36.83	1,065.96	2,611.39	2,555.50	55.89	46.720	
8,100.00	7,631.21	7,867.65	7,712.34	29.65	27.05	-92.78	-16.18	1,068.00	2,629.55	2,573.37	56.18	46.804	
8,200.00	7,634.00	8,148.11	7,805.67	29.80	27.52	-93.75	-278.16	1,069.62	2,638.65	2,581.63	57.02	46.277	
8,300.00	7,634.00	8,221.32	7,810.27	29.95	27.62	-93.84	-351.17	1,070.33	2,648.32	2,591.11	57.21	46.291	
8,400.00	7,634.00	8,322.92	7,805.71	30.12	27.77	-93.72	-452.64	1,072.18	2,657.89	2,600.44	57.45	46.263	
8,500.00	7,634.00	8,555.59	7,805.64	30.30	28.17	-93.70	-685.23	1,071.01	2,663.18	2,605.11	58.07	45.858	
8,600.00	7,634.00	8,746.25	7,809.14	30.49	28.56	-93.79	-875.58	1,060.66	2,659.46	2,600.73	58.73	45.282	
8,700.00	7,634.00	8,839.60	7,810.52	30.68	28.78	-93.83	-968.68	1,054.10	2,652.23	2,593.09	59.14	44.849	
8,800.00	7,634.00	8,905.49	7,810.54	30.89	28.95	-93.83	-1,034.44	1,050.06	2,645.82	2,586.35	59.47	44.491	
8,900.00	7,634.00	8,951.00	7,810.32	31.11	29.06	-93.83	-1,079.90	1,047.87	2,640.93	2,581.19	59.74	44.211	
9,000.00	7,634.00	9,020.81	7,809.74	31.34	29.25	-93.82	-1,149.67	1,045.65	2,637.52	2,577.40	60.11	43.876	
9,100.00	7,634.00	9,078.54	7,809.14	31.59	29.41	-93.81	-1,207.40	1,044.92	2,635.83	2,575.38	60.46	43.599	
9,158.53	7,634.00	9,113.32	7,808.81	31.74	29.51	-93.80	-1,242.18	1,044.90	2,635.57	2,574.90	60.67	43.441	
9,200.00	7,634.00	9,140.00	7,808.56	31.85	29.58	-93.80	-1,268.85	1,045.10	2,635.70	2,574.87	60.83	43.331	
9,300.00	7,634.00	9,203.83	7,808.02	32.13	29.77	-93.78	-1,332.67	1,046.18	2,636.99	2,575.76	61.23	43.069	
9,400.00	7,634.00	9,274.65	7,807.43	32.41	29.99	-93.77	-1,403.46	1,048.26	2,639.52	2,577.84	61.67	42.798	
9,500.00	7,634.00	9,352.81	7,806.88	32.72	30.23	-93.75	-1,481.56	1,051.31	2,643.01	2,580.84	62.18	42.508	
9,600.00	7,634.00	9,441.00	7,806.33	33.03	30.52	-93.74	-1,569.66	1,055.26	2,647.11	2,584.36	62.75	42.182	
9,700.00	7,634.00	9,535.74	7,805.74	33.36	30.85	-93.72	-1,664.28	1,059.81	2,651.54	2,588.14	63.40	41.825	
9,800.00	7,634.00	9,632.99	7,804.94	33.70	31.19	-93.69	-1,761.42	1,064.57	2,656.04	2,591.96	64.08	41.450	
9,900.00	7,634.00	9,719.10	7,804.31	34.05	31.51	-93.67	-1,847.40	1,069.08	2,660.89	2,596.17	64.72	41.115	
10,000.00	7,634.00	9,808.13	7,803.59	34.42	31.85	-93.65	-1,936.28	1,074.28	2,666.32	2,600.92	65.40	40.770	
10,100.00	7,634.00	10,008.93	7,800.61	34.80	32.66	-93.58	-2,136.92	1,081.35	2,668.86	2,602.01	66.85	39.922	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-35 Federal Com 7H - OH - Svy

Survey Program: 200-MWD+IFR1+MS														Offset Site Error:	0.00 usft
Reference														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,200.00	7,634.00	10,116.17	7,798.71	35.19	33.11	-93.54	-2,244.12	1,083.61	2,670.53	2,602.80	67.72	39.433			
10,300.00	7,634.00	10,222.81	7,797.11	35.59	33.58	-93.50	-2,350.73	1,085.41	2,671.78	2,603.16	68.62	38.938			
10,400.00	7,634.00	10,318.37	7,795.58	36.00	34.00	-93.47	-2,446.26	1,087.07	2,673.09	2,603.64	69.45	38.487			
10,500.00	7,634.00	10,413.46	7,794.13	36.43	34.44	-93.43	-2,541.33	1,088.88	2,674.57	2,604.26	70.31	38.040			
10,600.00	7,634.00	10,540.76	7,791.94	36.86	35.04	-93.38	-2,668.59	1,091.10	2,675.94	2,604.52	71.43	37.463			
10,700.00	7,634.00	10,674.30	7,789.88	37.30	35.68	-93.34	-2,802.10	1,091.43	2,675.73	2,603.11	72.62	36.844			
10,800.00	7,634.00	10,778.63	7,788.49	37.76	36.20	-93.31	-2,906.43	1,091.03	2,674.94	2,601.32	73.62	36.335			
10,900.00	7,634.00	10,874.30	7,787.05	38.22	36.68	-93.28	-3,002.09	1,090.61	2,674.09	2,599.53	74.56	35.863			
11,000.00	7,634.00	10,969.39	7,785.74	38.70	37.16	-93.25	-3,097.17	1,090.54	2,673.60	2,598.08	75.52	35.401			
11,100.00	7,634.00	11,063.60	7,784.36	39.18	37.65	-93.22	-3,191.36	1,090.38	2,673.02	2,596.53	76.49	34.947			
11,132.16	7,634.00	11,087.91	7,784.04	39.34	37.78	-93.22	-3,215.67	1,090.44	2,672.98	2,596.22	76.75	34.825			
11,200.00	7,634.00	11,154.30	7,783.31	39.67	38.13	-93.20	-3,282.06	1,090.84	2,673.11	2,595.67	77.44	34.518			
11,300.00	7,634.00	11,276.00	7,783.03	40.17	38.78	-93.20	-3,403.76	1,090.72	2,672.65	2,593.98	78.68	33.970			
11,400.00	7,634.00	11,381.52	7,782.88	40.67	39.35	-93.19	-3,509.27	1,090.14	2,671.76	2,591.97	79.79	33.485			
11,500.00	7,634.00	11,479.10	7,782.75	41.19	39.88	-93.19	-3,606.85	1,089.55	2,670.82	2,589.97	80.85	33.033			
11,600.00	7,634.00	11,599.35	7,782.71	41.71	40.55	-93.19	-3,727.11	1,088.52	2,669.65	2,587.52	82.13	32.506			
11,700.00	7,634.00	11,696.30	7,782.43	42.24	41.10	-93.19	-3,824.04	1,087.31	2,668.06	2,584.85	83.21	32.063			
11,800.00	7,634.00	11,779.00	7,782.31	42.78	41.57	-93.19	-3,906.74	1,086.63	2,666.88	2,582.70	84.18	31.681			
11,900.00	7,634.00	11,863.80	7,782.31	43.32	42.06	-93.19	-3,991.54	1,086.43	2,666.32	2,581.14	85.18	31.303			
12,000.00	7,634.00	11,956.58	7,782.29	43.87	42.59	-93.19	-4,084.32	1,086.60	2,666.17	2,579.91	86.26	30.909			
12,100.00	7,634.00	12,083.28	7,782.25	44.43	43.34	-93.19	-4,211.01	1,086.35	2,665.64	2,577.97	87.67	30.406			
12,200.00	7,634.00	12,182.92	7,781.94	44.99	43.93	-93.18	-4,310.66	1,085.55	2,664.49	2,575.65	88.83	29.994			
12,300.00	7,634.00	12,268.39	7,781.62	45.56	44.44	-93.18	-4,396.12	1,085.31	2,663.84	2,573.96	89.88	29.639			
12,400.00	7,634.00	12,376.94	7,781.30	46.13	45.09	-93.17	-4,504.67	1,084.89	2,663.09	2,571.94	91.15	29.217			
12,500.00	7,634.00	12,475.67	7,780.77	46.71	45.69	-93.16	-4,603.40	1,084.57	2,662.41	2,570.07	92.34	28.833			
12,600.00	7,634.00	12,579.48	7,780.36	47.30	46.33	-93.15	-4,707.21	1,084.00	2,661.51	2,567.93	93.58	28.440			
12,700.00	7,634.00	12,678.78	7,780.09	47.89	46.94	-93.15	-4,806.51	1,083.52	2,660.68	2,565.88	94.80	28.067			
12,800.00	7,634.00	12,775.80	7,779.51	48.48	47.54	-93.14	-4,903.53	1,083.03	2,659.88	2,563.89	96.00	27.709			
12,807.22	7,634.00	12,782.46	7,779.46	48.52	47.58	-93.13	-4,910.19	1,083.01	2,659.88	2,563.80	96.08	27.684			
12,900.00	7,634.00	12,862.45	7,778.76	49.08	48.08	-93.12	-4,990.17	1,082.88	2,660.54	2,563.45	97.09	27.402			
13,000.00	7,634.00	12,942.01	7,777.82	49.68	48.58	-93.10	-5,069.72	1,083.28	2,661.91	2,563.78	98.13	27.128			
13,100.00	7,634.00	13,037.12	7,776.87	50.29	49.18	-93.07	-5,164.82	1,084.51	2,664.06	2,564.74	99.32	26.823			
13,200.00	7,634.00	13,177.57	7,775.45	50.91	50.08	-93.04	-5,305.26	1,084.77	2,665.06	2,564.07	100.99	26.389			
13,300.00	7,634.00	13,264.28	7,774.47	51.52	50.63	-93.02	-5,391.96	1,084.54	2,665.67	2,563.56	102.12	26.104			
13,400.00	7,634.00	13,354.67	7,774.17	52.15	51.22	-93.01	-5,482.35	1,084.77	2,666.83	2,563.54	103.29	25.818			
13,500.00	7,634.00	13,464.33	7,775.95	52.77	51.93	-93.05	-5,592.00	1,084.97	2,668.03	2,563.34	104.69	25.485			
13,600.00	7,634.00	13,563.34	7,777.43	53.40	52.57	-93.08	-5,691.00	1,084.89	2,668.97	2,562.99	105.98	25.184			
13,700.00	7,634.00	13,672.89	7,779.30	54.03	53.29	-93.12	-5,800.53	1,084.64	2,669.76	2,562.37	107.39	24.861			
13,800.00	7,634.00	13,770.59	7,781.33	54.67	53.93	-93.16	-5,898.21	1,084.23	2,670.38	2,561.69	108.68	24.571			
13,900.00	7,634.00	13,855.95	7,782.92	55.30	54.50	-93.20	-5,983.56	1,084.22	2,671.39	2,561.54	109.85	24.320			
14,000.00	7,634.00	13,985.23	7,784.74	55.95	55.35	-93.23	-6,112.81	1,083.64	2,671.90	2,560.42	111.48	23.967			
14,100.00	7,634.00	14,076.09	7,786.18	56.59	55.96	-93.26	-6,203.66	1,082.90	2,672.11	2,559.40	112.72	23.707			
14,200.00	7,634.00	14,157.25	7,788.02	57.24	56.50	-93.30	-6,284.80	1,082.79	2,673.02	2,559.17	113.85	23.478			
14,300.00	7,634.00	14,256.12	7,789.42	57.89	57.16	-93.33	-6,383.66	1,083.07	2,674.31	2,559.13	115.18	23.219			
14,400.00	7,634.00	14,364.20	7,792.41	58.54	57.89	-93.39	-6,491.70	1,083.03	2,675.36	2,558.74	116.62	22.941			
14,500.00	7,634.00	14,464.75	7,795.20	59.20	58.58	-93.45	-6,592.21	1,082.87	2,676.29	2,558.30	117.99	22.683			
14,600.00	7,634.00	14,576.86	7,799.08	59.86	59.34	-93.54	-6,704.25	1,082.49	2,677.11	2,557.62	119.49	22.404			
14,700.00	7,634.00	14,674.40	7,802.18	60.52	60.00	-93.60	-6,801.74	1,081.79	2,677.51	2,556.68	120.84	22.158			
14,800.00	7,634.00	14,763.39	7,804.43	61.18	60.61	-93.65	-6,890.69	1,081.52	2,678.29	2,556.21	122.08	21.938			
14,900.00	7,634.00	14,871.89	7,806.31	61.85	61.35	-93.69	-6,999.18	1,081.42	2,679.25	2,555.70	123.55	21.686			
15,000.00	7,634.00	14,999.34	7,807.92	62.51	62.22	-93.72	-7,126.62	1,080.21	2,679.29	2,554.07	125.21	21.398			
15,043.67	7,634.00	15,033.45	7,808.39	62.81	62.46	-93.73	-7,160.72	1,079.81	2,679.21	2,553.50	125.71	21.312			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-35 Federal Com 7H - OH - Svy

Survey Program: 200-MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	Offset Site Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:
15,100.00	7,634.00	15,080.00	7,809.16	63.18	62.78	-93.75	-93.75	-7,207.26	1,079.44	2,679.34	2,552.96	126.38	21.201		0.00 usft	
15,200.00	7,634.00	15,162.45	7,810.78	63.86	63.35	-93.78	-93.78	-7,289.70	1,079.19	2,680.08	2,552.52	127.56	21.010		0.00 usft	
15,300.00	7,634.00	15,240.98	7,812.33	64.53	63.89	-93.81	-93.81	-7,368.21	1,079.46	2,681.49	2,552.78	128.70	20.835		0.00 usft	
15,400.00	7,634.00	15,341.86	7,814.08	65.21	64.59	-93.85	-93.85	-7,469.07	1,080.39	2,683.45	2,553.35	130.10	20.626		0.00 usft	
15,500.00	7,634.00	15,440.28	7,815.92	65.88	65.27	-93.89	-93.89	-7,567.47	1,081.09	2,685.27	2,553.79	131.47	20.424		0.00 usft	
15,600.00	7,634.00	15,524.28	7,817.35	66.56	65.86	-93.91	-93.91	-7,651.45	1,081.98	2,687.45	2,554.77	132.68	20.256		0.00 usft	
15,700.00	7,634.00	15,665.84	7,820.50	67.24	66.85	-93.98	-93.98	-7,792.97	1,083.20	2,689.57	2,555.00	134.56	19.987		0.00 usft	
15,800.00	7,634.00	15,793.54	7,822.77	67.93	67.74	-94.02	-94.02	-7,920.65	1,082.35	2,690.02	2,553.75	136.27	19.740		0.00 usft	
15,900.00	7,634.00	15,906.49	7,823.20	68.61	68.53	-94.03	-94.03	-8,033.59	1,080.79	2,689.66	2,551.86	137.81	19.518		0.00 usft	
16,000.00	7,634.00	16,013.49	7,823.12	69.30	69.27	-94.03	-94.03	-8,140.57	1,079.00	2,688.99	2,549.71	139.27	19.307		0.00 usft	
16,100.00	7,634.00	16,093.24	7,822.98	69.99	69.83	-94.03	-94.03	-8,220.31	1,077.83	2,688.52	2,548.07	140.45	19.142		0.00 usft	
16,105.78	7,634.00	16,097.70	7,822.97	70.03	69.86	-94.03	-94.03	-8,224.77	1,077.79	2,688.51	2,548.00	140.52	19.133		0.00 usft	
16,200.00	7,634.00	16,187.75	7,822.92	70.68	70.50	-94.03	-94.03	-8,314.82	1,077.04	2,688.67	2,546.88	141.79	18.962		0.00 usft	
16,300.00	7,634.00	16,290.01	7,823.52	71.37	71.22	-94.04	-94.04	-8,417.07	1,076.10	2,688.78	2,545.56	143.22	18.774		0.00 usft	
16,400.00	7,634.00	16,390.42	7,824.52	72.06	71.93	-94.06	-94.06	-8,517.47	1,075.08	2,688.84	2,544.20	144.64	18.590		0.00 usft	
16,500.00	7,634.00	16,477.82	7,825.36	72.76	72.54	-94.08	-94.08	-8,604.86	1,074.38	2,689.11	2,543.20	145.91	18.430		0.00 usft	
16,600.00	7,634.00	16,579.82	7,826.30	73.45	73.27	-94.10	-94.10	-8,706.86	1,073.84	2,689.65	2,542.30	147.35	18.254		0.00 usft	
16,700.00	7,634.00	16,717.37	7,827.31	74.15	74.24	-94.12	-94.12	-8,844.39	1,071.92	2,689.26	2,540.09	149.18	18.027		0.00 usft	
16,800.00	7,634.00	16,812.57	7,827.84	74.85	74.92	-94.14	-94.14	-8,939.57	1,069.99	2,688.28	2,537.74	150.54	17.857		0.00 usft	
16,900.00	7,634.00	16,895.05	7,827.46	75.55	75.50	-94.13	-94.13	-9,022.04	1,068.86	2,687.87	2,536.11	151.76	17.711		0.00 usft	
16,928.37	7,634.00	16,920.28	7,827.26	75.75	75.68	-94.12	-94.12	-9,047.27	1,068.61	2,687.86	2,535.73	152.13	17.668		0.00 usft	
17,000.00	7,634.00	16,986.07	7,826.74	76.25	76.15	-94.11	-94.11	-9,113.05	1,068.08	2,687.96	2,534.88	153.08	17.560		0.00 usft	
17,100.00	7,634.00	17,085.35	7,825.71	76.95	76.86	-94.09	-94.09	-9,212.32	1,067.40	2,688.20	2,533.71	154.48	17.401		0.00 usft	
17,200.00	7,634.00	17,187.57	7,824.31	77.65	77.59	-94.06	-94.06	-9,314.53	1,066.71	2,688.42	2,532.50	155.92	17.242		0.00 usft	
17,300.00	7,634.00	17,288.85	7,824.00	78.36	78.31	-94.05	-94.05	-9,415.81	1,065.82	2,688.52	2,531.16	157.36	17.086		0.00 usft	
17,400.00	7,634.00	17,395.21	7,823.97	79.06	79.07	-94.05	-94.05	-9,522.16	1,064.87	2,688.62	2,529.77	158.85	16.925		0.00 usft	
17,500.00	7,634.00	17,495.58	7,823.92	79.77	79.79	-94.05	-94.05	-9,622.52	1,063.61	2,688.37	2,528.08	160.28	16.773		0.00 usft	
17,600.00	7,634.00	17,595.22	7,824.67	80.48	80.50	-94.07	-94.07	-9,722.15	1,062.51	2,688.31	2,526.60	161.71	16.624		0.00 usft	
17,700.00	7,634.00	17,700.88	7,825.66	81.19	81.26	-94.09	-94.09	-9,827.81	1,061.14	2,688.08	2,524.87	163.21	16.470		0.00 usft	
17,800.00	7,634.00	17,831.06	7,826.66	81.90	82.20	-94.11	-94.11	-9,957.95	1,058.60	2,687.18	2,522.21	164.98	16.288		0.00 usft	
17,900.00	7,634.00	17,932.76	7,827.51	82.61	82.93	-94.13	-94.13	-10,059.62	1,056.10	2,685.79	2,519.35	166.44	16.137		0.00 usft	
18,000.00	7,634.00	18,047.66	7,828.33	83.32	83.75	-94.15	-94.15	-10,174.46	1,052.69	2,683.86	2,515.83	168.03	15.972		0.00 usft	
18,100.00	7,634.00	18,135.83	7,829.63	84.03	84.39	-94.18	-94.18	-10,262.58	1,049.98	2,682.00	2,512.64	169.36	15.836		0.00 usft	
18,200.00	7,634.00	18,214.07	7,830.53	84.74	84.95	-94.20	-94.20	-10,340.80	1,048.18	2,681.03	2,510.46	170.57	15.718		0.00 usft	
18,300.00	7,634.00	18,298.64	7,831.41	85.46	85.56	-94.22	-94.22	-10,425.35	1,046.88	2,680.80	2,508.96	171.85	15.600		0.00 usft	
18,350.21	7,634.00	18,354.75	7,831.99	85.82	85.97	-94.24	-94.24	-10,481.45	1,046.07	2,680.75	2,508.11	172.64	15.528		0.00 usft	
18,400.00	7,634.00	18,408.75	7,832.49	86.17	86.36	-94.25	-94.25	-10,535.44	1,045.20	2,680.59	2,507.18	173.41	15.458		0.00 usft	
18,500.00	7,634.00	18,515.47	7,832.85	86.89	87.13	-94.26	-94.26	-10,642.14	1,043.32	2,680.11	2,505.18	174.93	15.321		0.00 usft	
18,600.00	7,634.00	18,613.33	7,832.43	87.60	87.84	-94.25	-94.25	-10,739.99	1,041.46	2,679.42	2,503.08	176.35	15.194		0.00 usft	
18,700.00	7,634.00	18,724.28	7,828.71	88.32	88.65	-94.17	-94.17	-10,850.86	1,039.76	2,678.91	2,501.02	177.89	15.059		0.00 usft	
18,800.00	7,634.00	18,819.61	7,824.94	89.04	89.34	-94.09	-94.09	-10,946.09	1,037.83	2,677.86	2,498.59	179.26	14.938		0.00 usft	
18,900.00	7,634.00	18,926.21	7,822.00	89.76	90.11	-94.03	-94.03	-11,052.63	1,035.92	2,677.13	2,496.36	180.76	14.810		0.00 usft	
19,000.00	7,634.00	19,051.47	7,820.70	90.48	91.02	-94.00	-94.00	-11,177.84	1,032.59	2,675.64	2,493.18	182.47	14.664		0.00 usft	
19,100.00	7,634.00	19,154.56	7,819.58	91.20	91.77	-93.98	-93.98	-11,280.87	1,029.12	2,673.44	2,489.50	183.94	14.534		0.00 usft	
19,200.00	7,634.00	19,229.00	7,818.68	91.92	92.31	-93.96	-93.96	-11,355.28	1,027.16	2,671.94	2,486.82	185.12	14.433		0.00 usft	
19,300.00	7,634.00	19,302.35	7,817.74	92.64	92.85	-93.94	-93.94	-11,428.61	1,025.95	2,671.42	2,485.14	186.28	14.341		0.00 usft	
19,400.00	7,634.00	19,402.87	7,816.44	93.37	93.58	-93.92	-93.92	-11,529.12	1,024.76	2,671.38	2,483.65	187.73	14.230		0.00 usft	
19,500.00	7,634.00	19,500.90	7,815.20	94.09	94.30	-93.89	-93.89	-11,627.13	1,023.49	2,671.25	2,482.09	189.16	14.122		0.00 usft	
19,529.78	7,634.00	19,528.72	7,814.88	94.30	94.50	-93.88	-93.88	-11,654.94	1,023.15	2,671.23	2,481.67	189.57	14.091		0.00 usft	
19,600.00	7,634.00	19,592.81	7,814.15	94.81	94.97	-93.87	-93.87	-11,719.02	1,022.47	2,671.31	2,480.80	190.52	14.021		0.00 usft	
19,700.00	7,634.00	19,687.97	7,813.09	95.54	95.66	-93.84	-93.84	-11,814.18	1,021.68	2,671.65	2,479.74	191.91	13.921		0.00 usft	
19,800.00	7,634.00	19,772.63	7,812.01	96.26	96.28	-93.82	-93.82	-11,898.83	1,021.26	2,672.32	2,479.13	193.18	13.833		0.00 usft	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Wigeon 23-26-35 Federal Com - Wigeon 23-35 Federal Com 7H - OH - Svy

Offset Site Error: 0.00 usft

Survey Program: 200-MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation			
Depth	Depth	Depth	Depth	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
(usft)	(usft)	(usft)	(usft)								(usft)	(usft)	(usft)				
19,900.00	7,634.00	19,866.67	7,810.79	96.99	96.97	-93.79	-11,992.86	1,021.26	2,673.47	2,478.91	194.56	13.741					
20,000.00	7,634.00	19,955.94	7,810.03	97.71	97.63	-93.77	-12,082.13	1,021.42	2,674.84	2,478.95	195.89	13.655					
20,100.00	7,634.00	20,051.04	7,809.19	98.44	98.33	-93.75	-12,177.22	1,021.97	2,676.59	2,479.31	197.28	13.567					
20,200.00	7,634.00	20,164.11	7,808.08	99.17	99.16	-93.73	-12,290.28	1,022.46	2,678.21	2,479.31	198.90	13.465					
20,300.00	7,634.00	20,270.27	7,807.68	99.89	99.94	-93.72	-12,396.45	1,022.40	2,679.38	2,478.94	200.44	13.367					
20,400.00	7,634.00	20,360.00	7,807.99	100.62	100.59	-93.72	-12,486.17	1,022.36	2,680.60	2,478.82	201.78	13.285					
20,500.00	7,634.00	20,441.04	7,808.04	101.35	101.19	-93.72	-12,567.21	1,022.79	2,682.37	2,479.37	203.01	13.213					
20,600.00	7,634.00	20,553.78	7,808.53	102.08	102.02	-93.73	-12,679.94	1,023.63	2,684.40	2,479.76	204.64	13.118					
20,700.00	7,634.00	20,665.80	7,809.62	102.81	102.85	-93.75	-12,791.96	1,023.71	2,685.77	2,479.50	206.27	13.021					
20,800.00	7,634.00	20,764.51	7,809.95	103.54	103.57	-93.75	-12,890.67	1,023.82	2,687.15	2,479.42	207.72	12.936					
20,900.00	7,634.00	20,880.00	7,809.86	104.27	104.42	-93.75	-13,006.16	1,023.42	2,688.02	2,478.64	209.38	12.838					
21,000.00	7,634.00	21,000.71	7,809.63	105.00	105.31	-93.75	-13,126.86	1,022.49	2,688.51	2,477.42	211.09	12.736					
21,059.26	7,634.00	21,058.38	7,809.31	105.44	105.74	-93.74	-13,184.53	1,021.71	2,688.43	2,476.49	211.94	12.685					
21,100.00	7,634.00	21,092.63	7,808.92	105.74	105.99	-93.73	-13,218.77	1,021.36	2,688.48	2,476.01	212.46	12.654					
21,200.00	7,634.00	21,182.81	7,807.37	106.47	106.65	-93.70	-13,308.93	1,020.75	2,688.93	2,475.12	213.81	12.576					
21,300.00	7,634.00	21,297.37	7,805.26	107.20	107.50	-93.65	-13,423.47	1,019.96	2,689.39	2,473.95	215.44	12.483					
21,400.00	7,634.00	21,382.15	7,803.76	107.93	108.13	-93.62	-13,508.23	1,019.27	2,689.70	2,472.98	216.73	12.411					
21,500.00	7,634.00	21,478.69	7,802.00	108.67	108.84	-93.58	-13,604.76	1,018.90	2,690.45	2,472.30	218.15	12.333					
21,600.00	7,634.00	21,592.19	7,799.42	109.40	109.68	-93.52	-13,718.23	1,018.26	2,690.99	2,471.23	219.77	12.245					
21,700.00	7,634.00	21,662.62	7,798.07	110.14	110.20	-93.49	-13,788.65	1,018.08	2,691.84	2,470.97	220.88	12.187					
21,800.00	7,634.00	21,769.88	7,797.02	110.87	111.00	-93.47	-13,895.90	1,018.28	2,693.22	2,470.79	222.44	12.108					
21,900.00	7,634.00	21,889.15	7,796.60	111.61	111.88	-93.46	-14,015.17	1,017.71	2,693.97	2,469.83	224.15	12.019					
22,000.00	7,634.00	22,001.71	7,796.02	112.34	112.71	-93.45	-14,127.72	1,016.38	2,693.99	2,468.22	225.76	11.933					
22,050.93	7,634.00	22,050.29	7,795.92	112.72	113.07	-93.45	-14,176.29	1,015.76	2,693.96	2,467.47	226.49	11.894					
22,100.00	7,634.00	22,089.39	7,795.92	113.08	113.36	-93.45	-14,215.39	1,015.33	2,694.04	2,466.94	227.10	11.863					
22,200.00	7,634.00	22,173.75	7,795.71	113.81	113.99	-93.44	-14,299.76	1,014.96	2,694.81	2,466.42	228.39	11.799					
22,300.00	7,634.00	22,272.81	7,795.45	114.55	114.72	-93.43	-14,398.81	1,014.53	2,695.60	2,465.74	229.86	11.727					
22,400.00	7,634.00	22,351.77	7,795.91	115.29	115.31	-93.44	-14,477.76	1,014.67	2,697.04	2,465.96	231.08	11.672					
22,500.00	7,634.00	22,447.27	7,796.07	116.02	116.02	-93.44	-14,573.27	1,015.20	2,698.85	2,466.34	232.50	11.608					
22,600.00	7,634.00	22,552.60	7,796.50	116.76	116.80	-93.45	-14,678.60	1,016.02	2,700.91	2,466.85	234.06	11.540					
22,700.00	7,634.00	22,662.18	7,796.92	117.50	117.61	-93.46	-14,788.17	1,016.09	2,702.21	2,466.55	235.66	11.466					
22,800.00	7,634.00	22,767.10	7,796.62	118.24	118.39	-93.45	-14,893.09	1,016.23	2,703.58	2,466.37	237.21	11.398					
22,900.00	7,634.00	22,880.19	7,796.49	118.98	119.23	-93.44	-15,006.18	1,015.89	2,704.51	2,465.66	238.85	11.323					
23,000.00	7,634.00	22,988.78	7,796.42	119.72	120.04	-93.44	-15,114.77	1,015.21	2,705.13	2,464.69	240.43	11.251					
23,100.00	7,634.00	23,102.60	7,796.11	120.46	120.89	-93.44	-15,228.58	1,013.90	2,705.19	2,463.12	242.07	11.175					
23,194.66	7,634.00	23,196.00	7,794.81	121.16	121.58	-93.41	-15,321.96	1,012.61	2,704.99	2,461.54	243.46	11.111					
23,200.00	7,634.00	23,196.00	7,794.81	121.19	121.58	-93.41	-15,321.96	1,012.61	2,705.00	2,461.52	243.48	11.110					
23,235.54	7,634.00	23,196.00	7,794.81	121.46	121.58	-93.41	-15,321.96	1,012.61	2,705.27	2,461.70	243.57	11.107	SF				

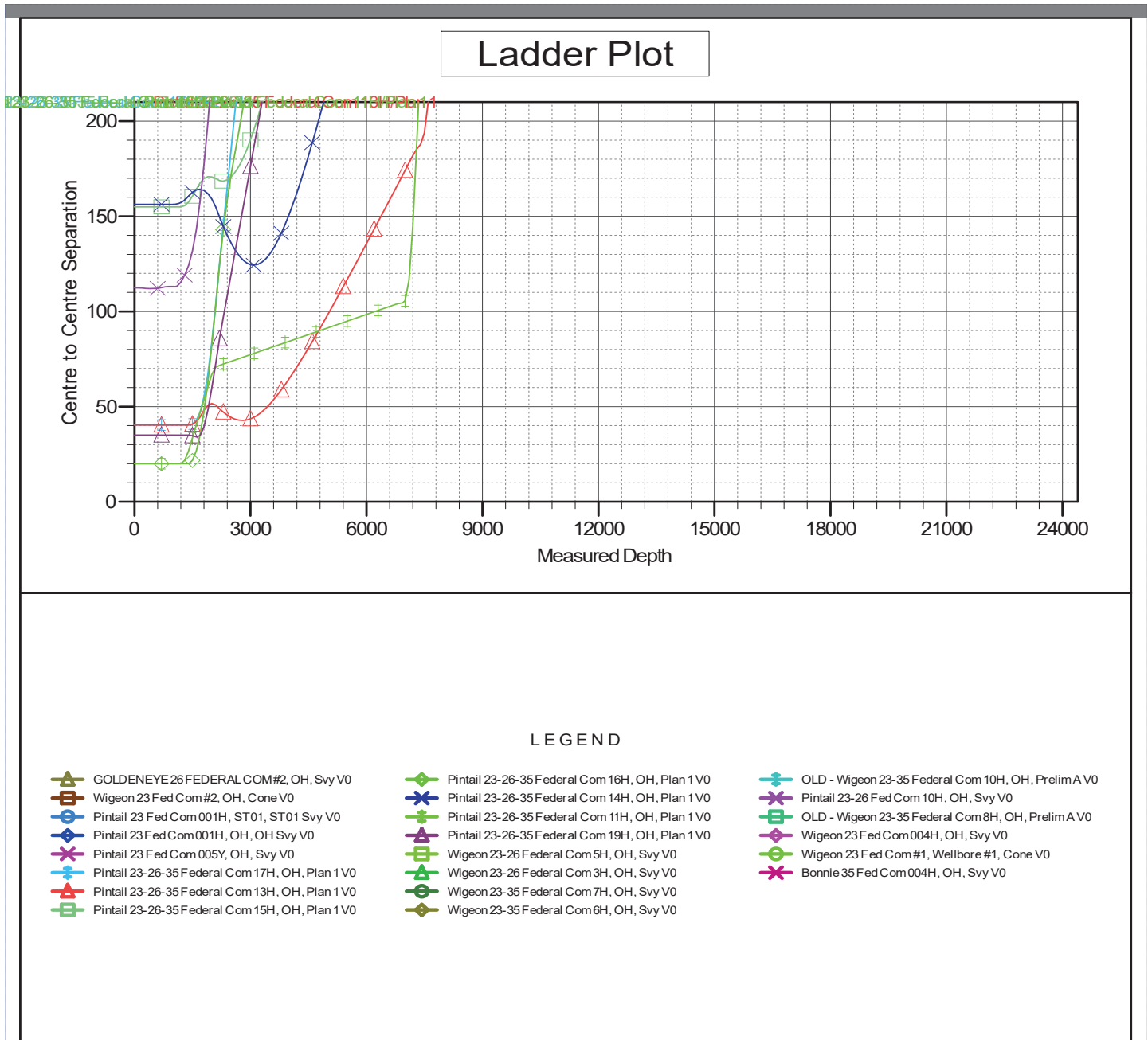
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3300.5' GL + 23 @ 3323.50usft (Rig) Coordinates are relative to: Pintail 23-26-35 Federal Com 12H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.3333333 Grid Convergence at Surface is: 0.04°



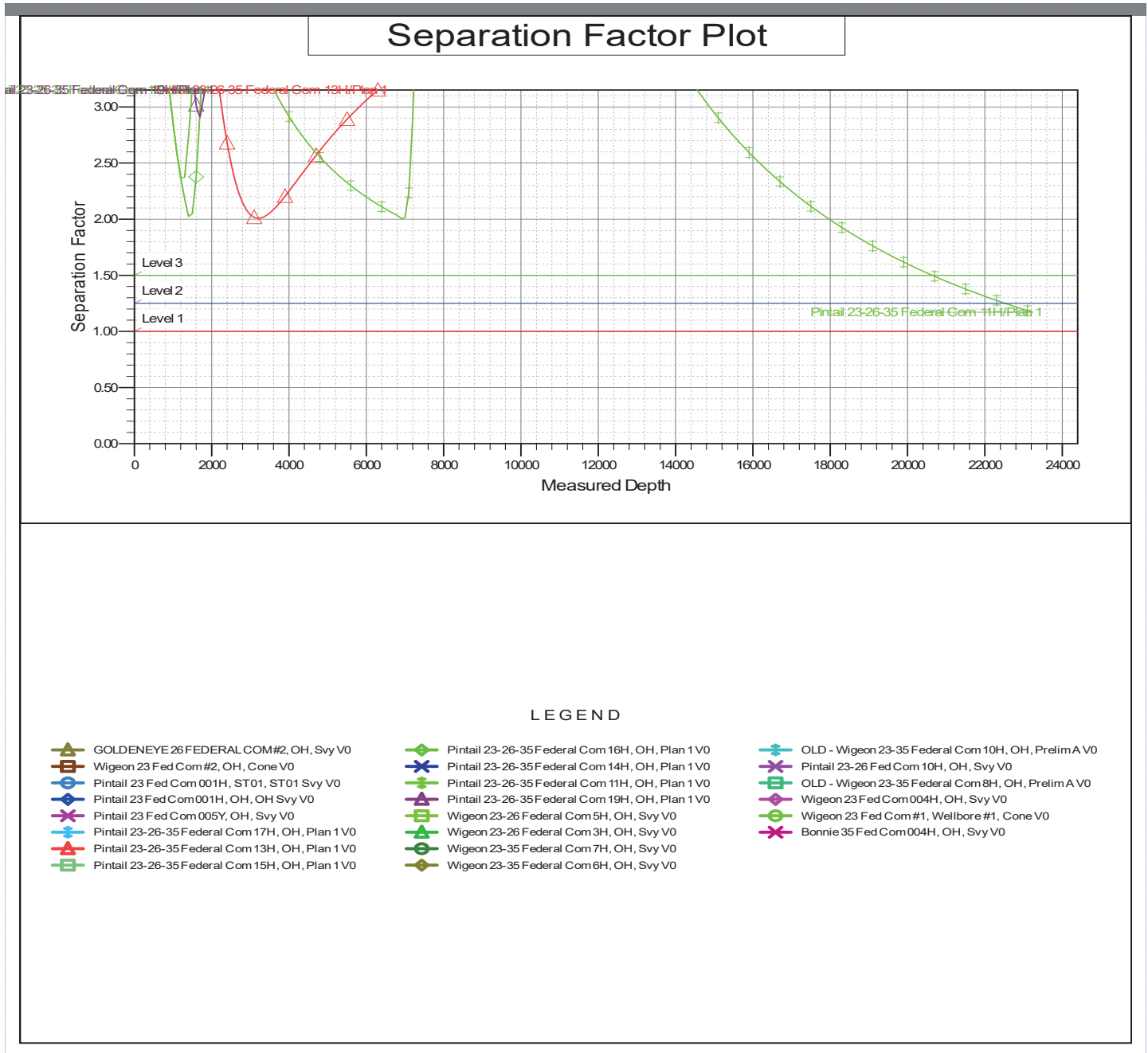
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Total Directional Anticollision Report



Company:	Coterra Energy	Local Co-ordinate Reference:	Well Pintail 23-26-35 Federal Com 12H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Reference Site:	Pintail 23-26-35 Federal Com	MD Reference:	3300.5' GL + 23 @ 3323.50usft (Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Pintail 23-26-35 Federal Com 12H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3300.5' GL + 23 @ 3323.50usft (Rig) Coordinates are relative to: Pintail 23-26-35 Federal Com 12H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.3333333 Grid Convergence at Surface is: 0.04°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

1. Geological Formations

TVD of target 7,634
MD at TD 23,235

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	438	N/A	
Top of Salt	1083	N/A	
Base of Salt	1674	N/A	
Anhydrite	1886	N/A	
Lamar	1900	N/A	
Bell Canyon	2023	N/A	
Cherry Canyon	2699	N/A	
Brushy Canyon	3810	N/A	
Bone Spring Lime	5493	N/A	
Leonard Shale	5643	N/A	
1st Bone Spring Sand	6378	N/A	
2nd Bone Spring Shale	6549	N/A	
2nd Bone Spring Sand	6914	N/A	
3rd Bone Spring Carb	7272	N/A	
3rd Bone Spring Carb - Target	7644	N/A	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension	
17 1/2	0	650	650	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	2.63	6.14	10.32	
12 1/4	0	1900	1900	9-5/8"	36.00	J-55	LT&C	2.04	3.56	6.62	
7 7/8	0	7237	7237	5-1/2"							
7 7/8	7237	23235	7634	5-1/2"	20.00	P-110	BT&C	2.94	3.28	80.73	
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet	

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	212	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	195	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	348	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	111	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	522	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	3200	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface		38
Intermediate		54
Production	1650	25

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	10M	Annular	X	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
7 7/8	13 5/8	10M	Annular	X	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 650'	FW Spud Mud	7.83 - 8.33	30-32	N/C
650' to 1900'	Brine Water	9.50 - 10.00	30-32	N/C
1900' to 23235'	Cut Brine or OBM	9.00 - 9.50	27-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing	
	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
X	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	3771 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
X	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

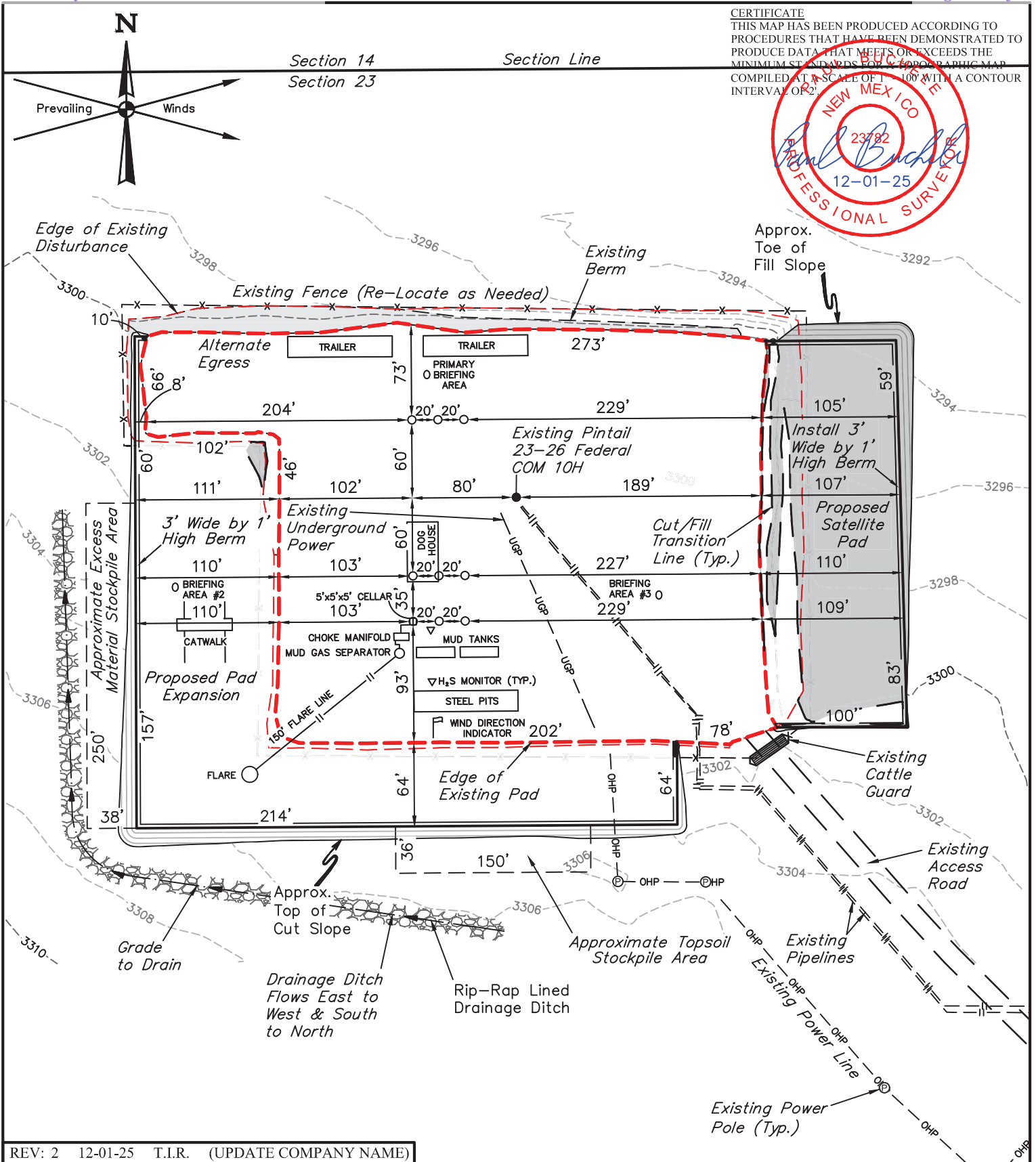
1. The multi-bowl wellhead will be installed by a vendor representative. A copy of the installation instructions has been sent to the BLM field office.
2. A packoff will be installed after running and cementing the production casing. This packoff will be tested to 10K psi.

BOPE Additional Information & Testing

1. After running the first string of casing, a 10M BOP/BOPE system with 10M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be tested to full rated pressure (10K for all BOPE). For the low test, the system will be tested to 250 psi.
2. All BOP equipment will be tested utilizing a conventional test plug.
3. A remote kill line is included in the BOPE system
4. All casing strings will be tested per Onshore Order #2, to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of casing burst.
5. If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Additional Well Control Notes

1. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.



REV: 2 12-01-25 T.I.R. (UPDATE COMPANY NAME)

NOTES:

- Contours shown at 2' intervals.

CIMAREX ENERGY CO. OF COLORADO

PINTAIL 23-35 FEDERAL COM E2W2 PAD
383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	D.J.S.	02-28-19	1" = 100'
TYPICAL RIG LAYOUT			EXHIBIT K



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Cimarex Energy Co. of Colorado **OGRID:** 162683 **Date:** 1/8/2026

II. Type: Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Pintail 23-26-35 Fed Com 12H		Sec 23 T25S, R26E	424 FNL/1919 FWL	1442	4648	2400

IV. Central Delivery Point Name: Wigeon CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Pintail 23-26-35 Fed Com 12H		5/9/2026	8/17/2026	11/17/2026	2/1/2027	2/6/2027

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	<i>Crystal Denson</i>
Printed Name:	Crystal Denson
Title:	Regulatory Analyst
E-mail Address:	crystal.denson@coterra.com
Date:	1/8/2026
Phone:	432/6201699

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

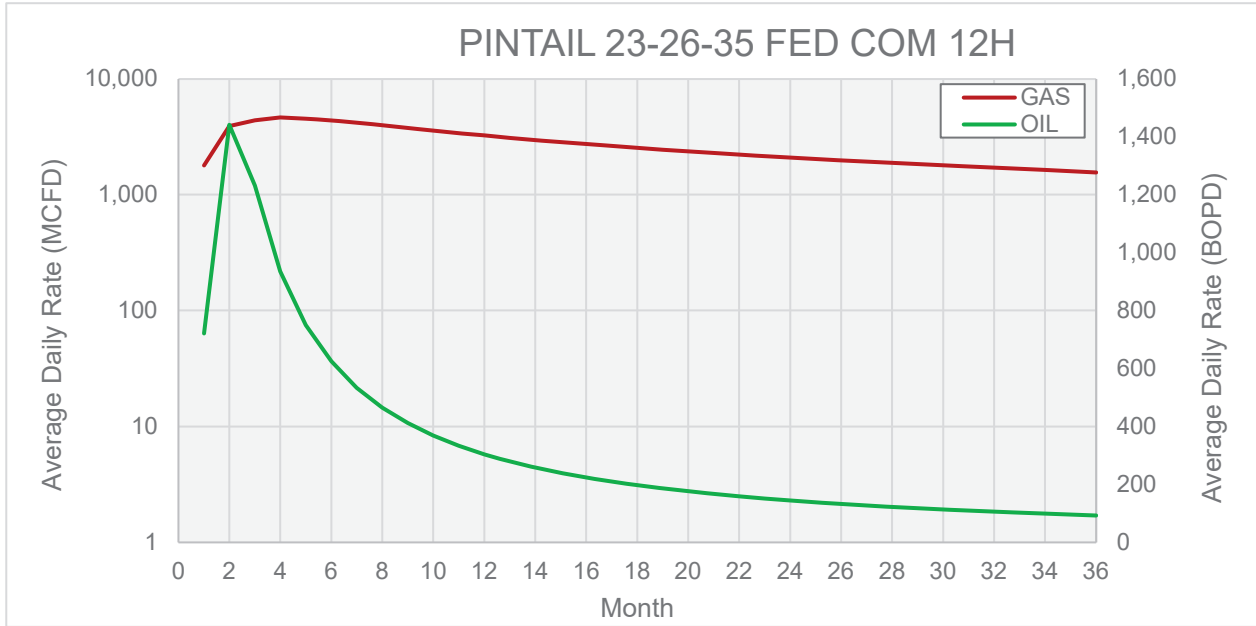
From State of New Mexico, Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

PINTAIL 23-26-35 FED COM 12H	PINTAIL 23-26-35 FED COM 12H
GAS MCFD	OIL BOPD
1,784	721
3,908	1,442
4,381	1,231
4,648	935
4,531	750
4,373	624
4,188	534
3,959	465
3,756	411
3,566	368
3,396	333
3,240	304
3,093	279
2,953	258
2,834	240
2,732	224
2,632	210
2,533	197
2,445	186
2,367	176
2,291	167
2,215	159
2,146	151
2,083	145
2,026	138
1,974	132
1,924	127
1,875	122
1,830	118
1,788	113
1,749	109
1,713	106
1,675	102
1,635	99
1,598	96
1,563	93



Cimarex

VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
 - a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
 - a. Venting or flaring occurs due to an emergency or equipment malfunction.
 - b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
 - c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
 - d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
 - e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
 - f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
 - g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
 - h. Venting or flaring occurs as a result of normal dehydration unit operations.

- i. Venting or flaring occurs as a result of bradenhead testing.
 - j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
 - k. Venting or flaring occurs as a result of a packer leakage test.
 - l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
 - m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.
6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc...
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
 - a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
 - b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
 - a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- **Workovers:**
 - Always strive to kill well when performing downhole maintenance.
 - If vapors or trapped pressure is present and must be relieved then:
 - Initial blowdown to production facility:
 - Route vapors to LP flare if possible/applicable
 - Blowdown to portable gas buster tank:
 - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
 - Minimize time spent with thief hatches open.
 - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
 - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
 - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
 - Route to flare where possible.
 - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
 - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
 - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
 - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
 - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
 - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.



CERTIFICATE OF QUALITY


LTYY/QR-5.7.1-19B

No: LT2024-156-001


Customer Name			
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×35ft (10.67m)	Quantity	1PCS
Serial Number	VTC-7660257	FSL	FSL3
customer number	PO890145-001	Standard	API Spec 16C 3 rd edition
Temperature Range	-29℃ ~+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3 rd edition
Size and Lengths	In accordance with API Spec 16C 3 rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3 rd edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21 st edition
End Connections: 4-1/16"×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3 rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3 rd edition
product Marking	In accordance with API Spec 16C 3 rd edition

Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition
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Remarks	16C-0403 
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

No: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×35ft (10.67m)	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30

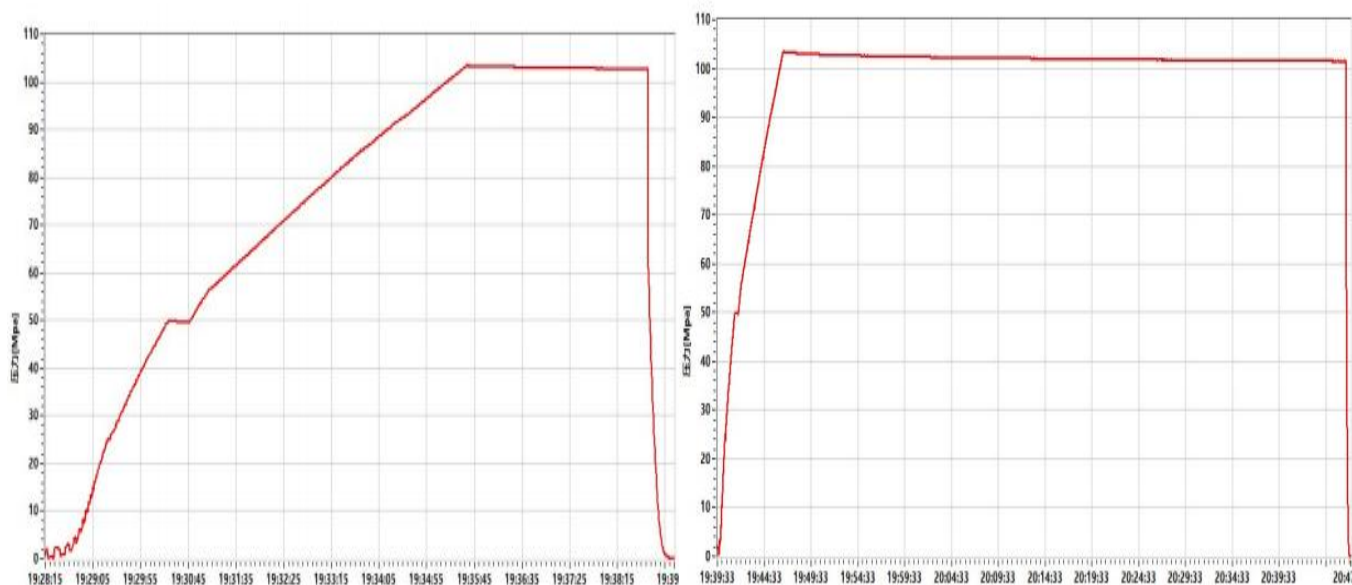
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than ±2%
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition		16C-0403	
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Approver	Jane C	Auditor	Alice D	Inspector	Leo W
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LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×35ft (10.67m)

Serial Number: VTC-7660257

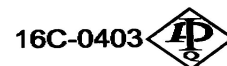
customer number: PO890145-001

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager: Jane C

Date:Sep 3, 2024



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	
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Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells. Before skidding the rig, a TA cap is installed on the subject well.

Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report

03/18/2026

APD ID: 10400109580

Submission Date: 01/19/2026

Highlighted data reflects the most recent changes

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PINTAIL_23_26_35_FED_COM_Existing_Road_Plat_20260108101118.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

PINTAIL_23_26_35_FED_COM_Well_Radius_map_20260108101142.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Using Wigeon CTB

Production Facilities map:

PINTAIL_23_26_35_FED_COM_Location_Layout_Plat_20260108101220.pdf

Plot_Plan_20260116133531.pdf

PINTAIL_23_26_35_FED_COM_powerline_row_plat_20260306092709.pdf

PINTAIL_23_26_35_FED_COM_bulk_line_row_plat_20260306092709.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: RECYCLED

Water source use type: SURFACE CASING
INTERMEDIATE/PRODUCTION CASING
STIMULATION

Source latitude: 32.105675

Source longitude: -104.269639

Source datum: NAD83

City:

Water source permit type: WATER RIGHT

Water source transport method: PIPELINE

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 5000

Source volume (acre-feet): 0.64446548

Source volume (gal): 210000

Water source and transportation

Water_Supply_Map_20240502081925.pdf

Water source comments:

New water well? N

New Water Well Info

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche and gravel will be obtained from the actual well site if available. In the event that no caliche is found onsite, caliche will be hauled in from BLM-approved caliche pit in NENW Section 5/T25S/R26E. 32.165186, -104.315946

Construction Materials source location

Caliche_Location_Pintail_20260109070919.pdf

Section 7 - Methods for Handling

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations.

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: A licensed 3rd party hauls trash to Lea County Landfill.

Operator Name: COTERRA ENERGY OPERATING CO	
Well Name: PINTAIL 23-26-35 FEDERAL COM	Well Number: 12H

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.

Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Haul to R360 Environmental Solutions, 4507 Carlsbad Hwy, Hobbs, NM 88240

Waste type: SEWAGE

Waste content description: Human waste.

Amount of waste: 300 gallons

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose human waste to City of Toyah TX waste water facility.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

PINTAIL_23_26_35_FED_COM_Reclamation_Plat_20260108101748.pdf

PINTAIL_23_26_35_FED_COM_Location_Layout_Plat_20260108101748.pdf

PINTAIL_23_26_35_FED_COM_Rig_Layout_Plat_20260108101748.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Pintail 23-26-35 Federal Com

Multiple Well Pad Number: E2W2

Recontouring

PINTAIL_23_26_35_FED_COM_Reclamation_Plat_20260109082218.pdf

Drainage/Erosion control construction: Pad construction will include drainage control by re-routing drainages around the pad and installing culverts or low water crossings where needed. Erosion control techniques will be used where needed to minimize wind and water erosion and sedimentation loading prior to vegetation establishment.

Drainage/Erosion control reclamation: Area wide drainage will be stabilized and restored so that surface runoff flows, and gradients are returned to the condition present prior to development. Drainage basins will have similar features found in nearby, properly functioning basins.

Operator Name: COTERRA ENERGY OPERATING CO
Well Name: PINTAIL 23-26-35 FEDERAL COM **Well Number:** 12H

Well pad proposed disturbance (acres): 4.838	Well pad interim reclamation (acres): 2.674	Well pad long term disturbance (acres): 2.164
Road proposed disturbance (acres): 0.422	Road interim reclamation (acres): 0	Road long term disturbance (acres): 3.966
Powerline proposed disturbance (acres): 0.022	Powerline interim reclamation (acres): 0.022	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0.117	Pipeline interim reclamation (acres): 0.117	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 5.399	Total interim reclamation: 2.8129999999999997	Total long term disturbance: 6.130000000000001

Disturbance Comments: BLM recommended seed mix will be used for reclamation purposes.

Reconstruction method: Areas to be reclaimed will be graded to approximate original contours and to blend in with adjacent topography. Graded surfaces will be suitable for the replacement of uniform depth of topsoil, will promote cohesion between subsoil and topsoil layers, will reduce wind erosion, and will facilitate moisture capture. Specialist grading techniques may be applied if warranted and could include slope rounding, star-step grading/tracing and/or contour furrowing.

Topsoil redistribution: After compaction relief (ripping/discing) all topsoil will be redistributed on the reclaimed area to a predisturbance depth. Topsoil is typically redistributed with a scarper or front-end loader which leaves friable surface to work with. Waterbars and erosion control devices will be installed on reclaimed areas, as necessary, to control topsoil erosion

Soil treatment: As needed.

Existing Vegetation at the well pad: N/A

Existing Vegetation at the well pad

Existing Vegetation Community at the road: N/A

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: N/A

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: N/A

Weed treatment plan

Monitoring plan description: Monitoring will be done in accordance with BLM reclamation guidelines.

Monitoring plan

Success standards: Success standards will be measured in accordance with BLM reclamation guidelines.

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: COTERRA ENERGY OPERATING CO	
Well Name: PINTAIL 23-26-35 FEDERAL COM	Well Number: 12H

Disturbance type: OTHER

Describe: powerline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Section 12 - Other

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 288100 ROW – O&G Pipeline

ROW

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite with Brendan Harris 10/23/2025.

Other SUPO

BEGINNING AT THE INTERSECTION OF COUNTY ROAD 748 AND AN EXISTING ROAD TO THE WEST (LOCATED AT NAD 83 LATITUDE N32.1319° AND LONGITUDE W104.2341°) PROCEED IN A WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE EXISTING LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF COUNTY ROAD 748 AND AN EXISTING ROAD TO THE WEST (LOCATED AT NAD 83 LATITUDE N32.1319° AND LONGITUDE W104.2341°) TO THE EXISTING WELL LOCATION IS APPROXIMATELY 2.3 MILES.

REV: 3 12-01-25 T.I.R. (UPDATE COMPANY NAME)

CIMAREX ENERGY CO. OF COLORADO

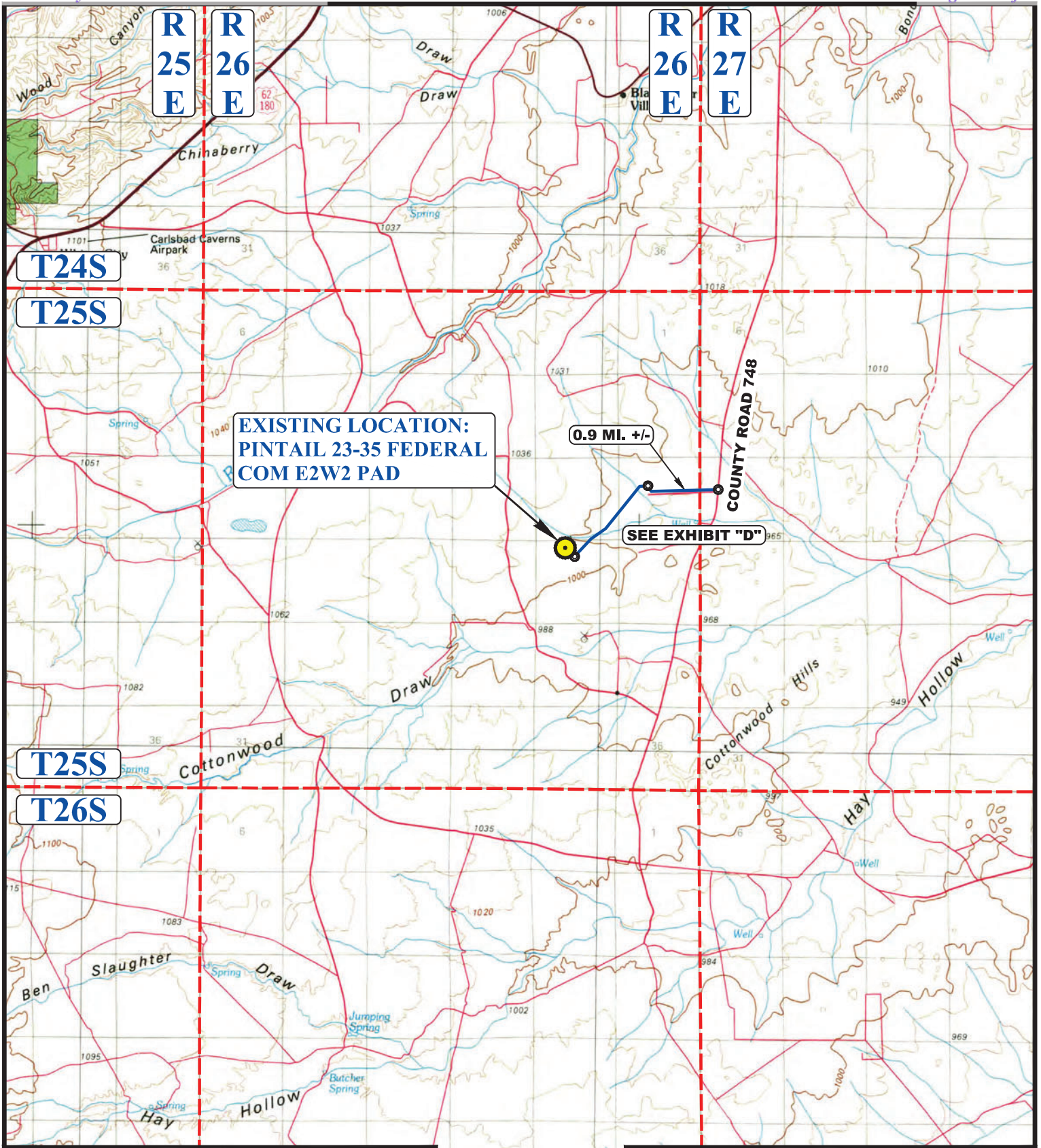
**PINTAIL 23-35 FEDERAL COM E2W2 PAD
 383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
 NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO**

SURVEYED BY	C.S., G.M.	10-08-25	
DRAWN BY	S.T.O.	03-01-19	
ROAD DESCRIPTION			EXHIBIT A

UELS, LLC

Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017





LOVING, NEW MEXICO IS 15.0 +/- MILES NORTHEASTERLY

REV: 3 12-01-25 T.I.R. (UPDATE COMPANY NAME)

LEGEND:

 EXISTING LOCATION



CIMAREX ENERGY CO. OF COLORADO

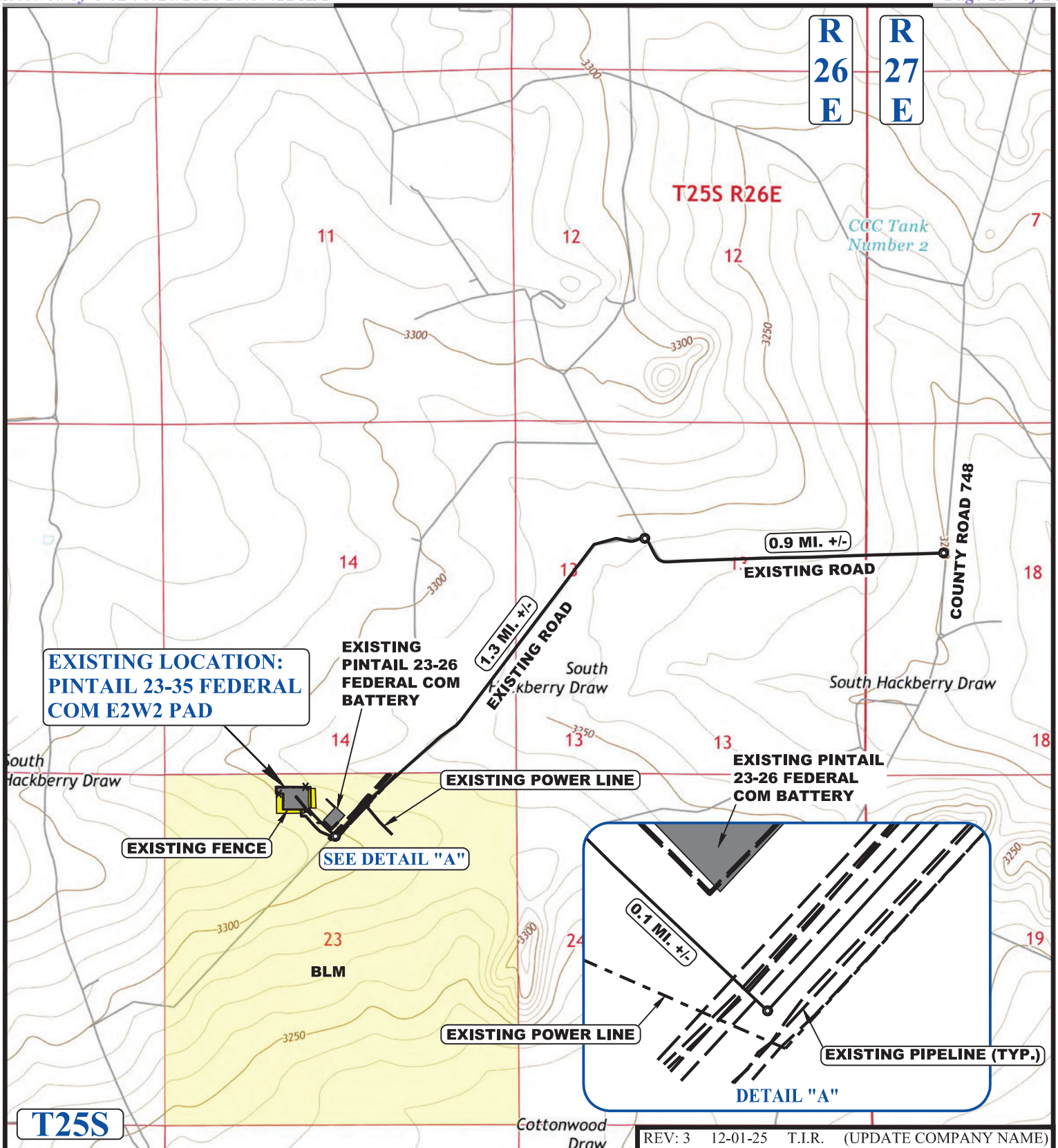
PINTAIL 23-35 FEDERAL COM E2W2 PAD
383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	S.T.O.	03-01-19	1 : 100,000

PUBLIC ACCESS ROAD MAP EXHIBIT B



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



**EXISTING LOCATION:
PINTAIL 23-35 FEDERAL
COM E2W2 PAD**

**EXISTING
PINTAIL 23-26
FEDERAL COM
BATTERY**

CCC Tank
Number 2

T25S R26E

0.9 MI. +/-

EXISTING ROAD

COUNTY ROAD 748

1.3 MI. +/-
EXISTING ROAD

South Hackberry Draw

South Hackberry Draw

South Hackberry Draw

EXISTING FENCE

SEE DETAIL "A"

EXISTING POWER LINE

EXISTING PINTAIL
23-26 FEDERAL
COM BATTERY

0.1 MI. +/-

EXISTING POWER LINE

EXISTING PIPELINE (TYP.)

DETAIL "A"

T25S

Cottonwood Draw

REV: 3 12-01-25 T.I.R. (UPDATE COMPANY NAME)

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - EXISTING POWER LINE
- - - EXISTING PIPELINE
- * * EXISTING FENCE



CIMAREX ENERGY CO. OF COLORADO

PINTAIL 23-35 FEDERAL COM E2W2 PAD
 383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
 NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

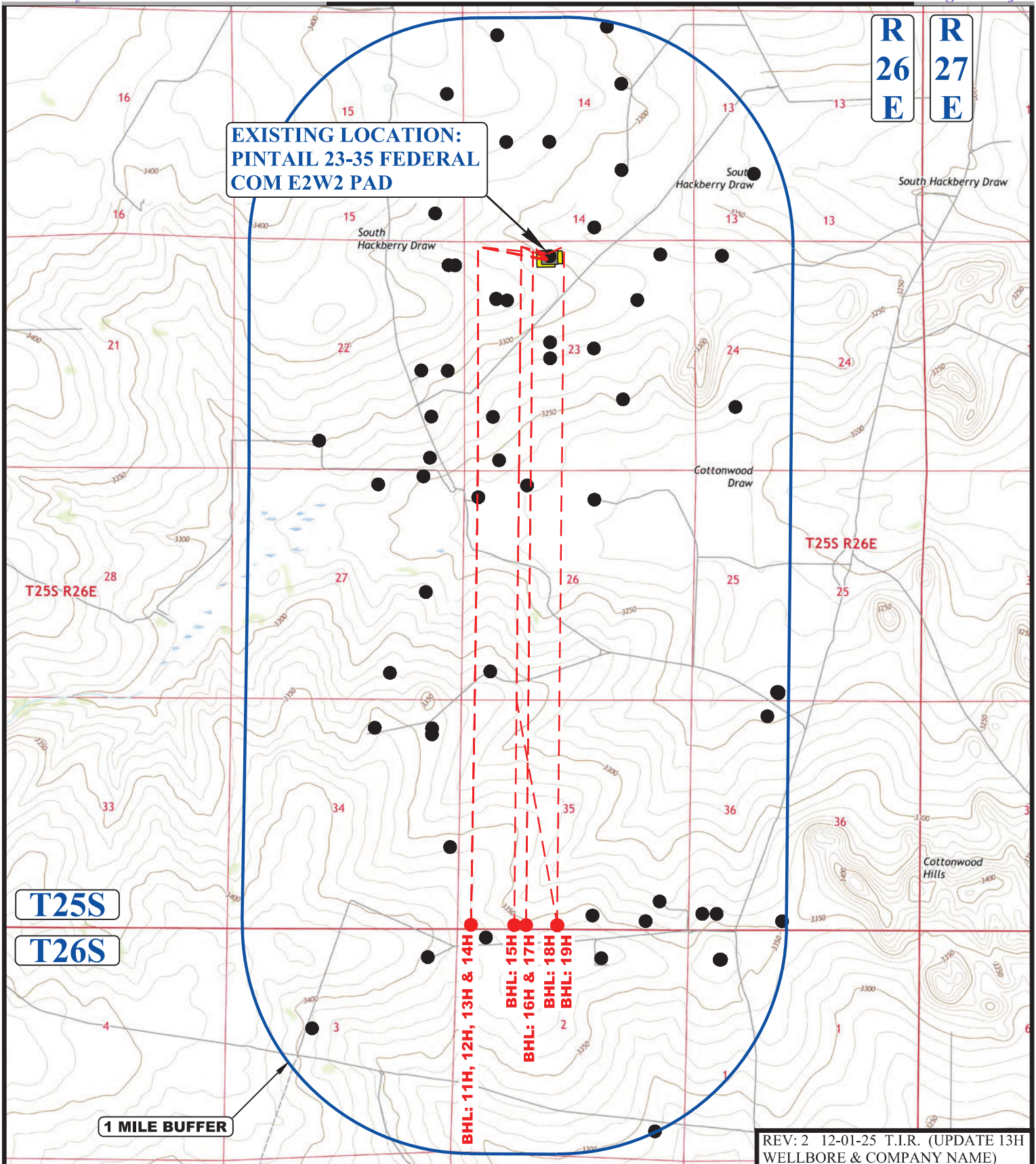
SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	S.T.O.	03-01-19	1 : 24,000

NEW ROAD MAP

EXHIBIT D



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



LEGEND:

● EXISTING WELLS



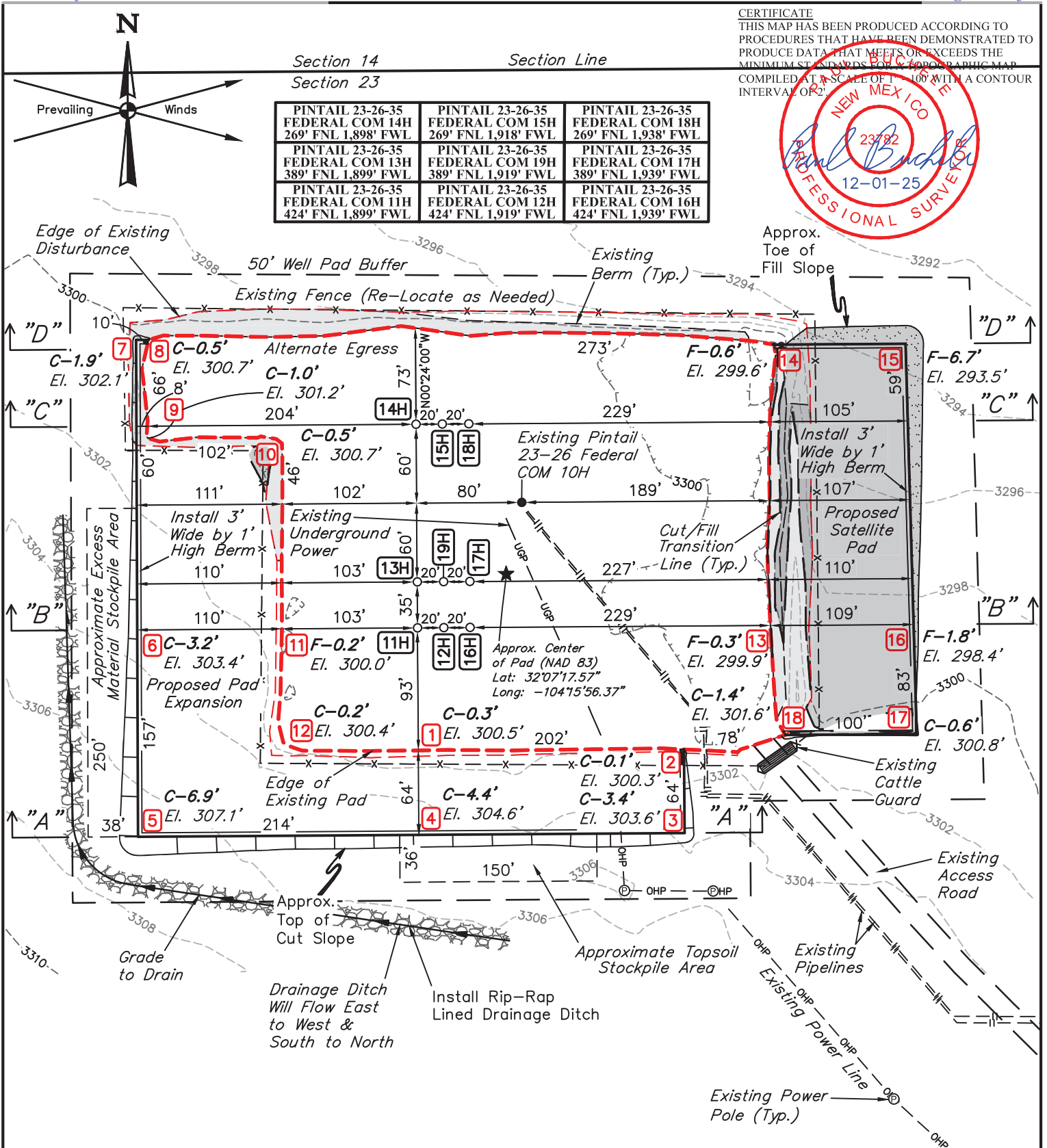
CIMAREX ENERGY CO. OF COLORADO

PINTAIL 23-35 FEDERAL COM E2W2 PAD
383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	S.T.O.	03-01-19	1 : 36,000
1 MILE RADIUS MAP			EXHIBIT E



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ. except where noted)
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO. OF COLORADO

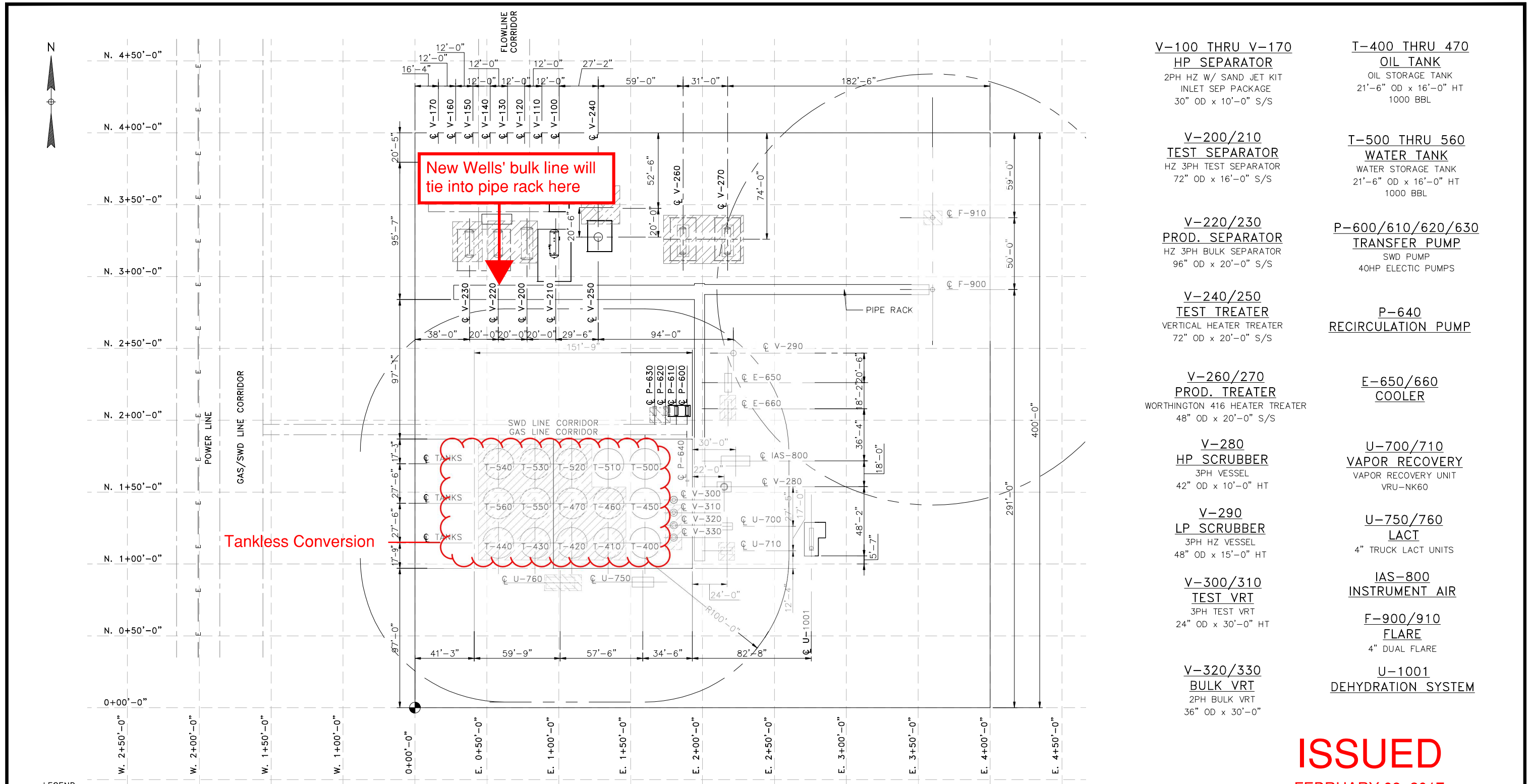
PINTAIL 23-35 FEDERAL COM E2W2 PAD
383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	D.J.S.	02-28-19	1" = 100'

LOCATION LAYOUT **EXHIBIT J**



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



- V-100 THRU V-170**
HP SEPARATOR
2PH HZ W/ SAND JET KIT
INLET SEP PACKAGE
30" OD x 10'-0" S/S
- V-200/210**
TEST SEPARATOR
HZ 3PH TEST SEPARATOR
72" OD x 16'-0" S/S
- V-220/230**
PROD. SEPARATOR
HZ 3PH BULK SEPARATOR
96" OD x 20'-0" S/S
- V-240/250**
TEST TREATER
VERTICAL HEATER TREATER
72" OD x 20'-0" S/S
- V-260/270**
PROD. TREATER
WORTHINGTON 416 HEATER TREATER
48" OD x 20'-0" S/S
- V-280**
HP SCRUBBER
3PH VESSEL
42" OD x 10'-0" HT
- V-290**
LP SCRUBBER
3PH HZ VESSEL
48" OD x 15'-0" HT
- V-300/310**
TEST VRT
3PH TEST VRT
24" OD x 30'-0" HT
- V-320/330**
BULK VRT
2PH BULK VRT
36" OD x 30'-0"
- T-400 THRU 470**
OIL TANK
OIL STORAGE TANK
21'-6" OD x 16'-0" HT
1000 BBL
- T-500 THRU 560**
WATER TANK
WATER STORAGE TANK
21'-6" OD x 16'-0" HT
1000 BBL
- P-600/610/620/630**
TRANSFER PUMP
SWD PUMP
40HP ELECTIC PUMPS
- P-640**
RECIRCULATION PUMP
- E-650/660**
COOLER
- U-700/710**
VAPOR RECOVERY
VAPOR RECOVERY UNIT
VRU-NK60
- U-750/760**
LACT
4" TRUCK LACT UNITS
- IAS-800**
INSTRUMENT AIR
- F-900/910**
FLARE
4" DUAL FLARE
- U-1001**
DEHYDRATION SYSTEM

Tankless Conversion

New Wells' bulk line will tie into pipe rack here

ISSUED

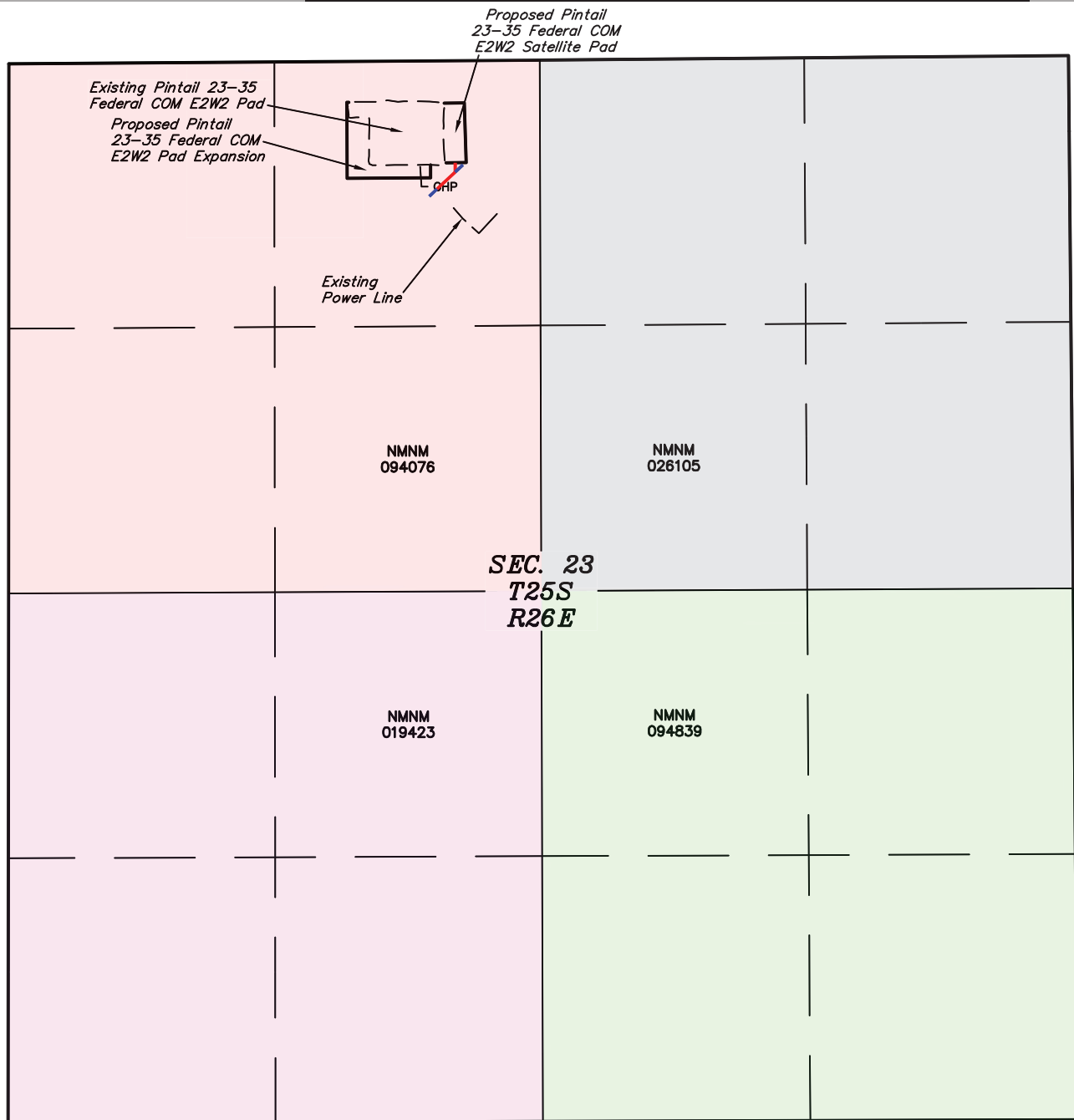
FEBRUARY 03, 2017

FOR CONSTRUCTION

LEGEND



NOTE:	3S Services, LLC ENGINEERING & CONSTRUCTION Ph: 432-687-5611 Midland, Texas 79705 WWW.3SSERVICES.COM TBPE FIRM REG. #13809 NM FIRM REG. #4545320 OKLA FIRM REG. #3712353615	REFERENCE DRAWINGS		REVISIONS				ENGINEERING RECORD		WIGEON 23-26 #4H PLOT PLAN PERMIAN REGION CULBERSON COUNTY	TX
		NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.		
				0	02/03/17	ISSUED FOR CONSTRUCTION	NC		DRN: NC	11/07/16	
									DES:		
									CHK:		
									APP:		
									AFE No.		
									FACILITY ENGR.	J. RICKER	
									PROJ. ENGR:		
									SCALE: NONE		
									CAD NO. 20-100		
									DWG. NO. D-6145-20-100		
											REV 0



LEGEND:

- PROPOSED POWER LINE CENTERLINE
- PROPOSED ANCHOR CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

NOTE:

- Colored areas within section lines represent Federal oil & gas leases.

REV: 1 12-01-25 T.I.R. (UPDATE COMPANY NAME)



CIMAREX ENERGY CO. OF COLORADO

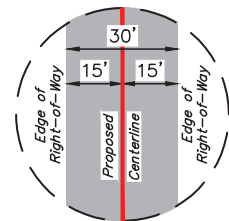
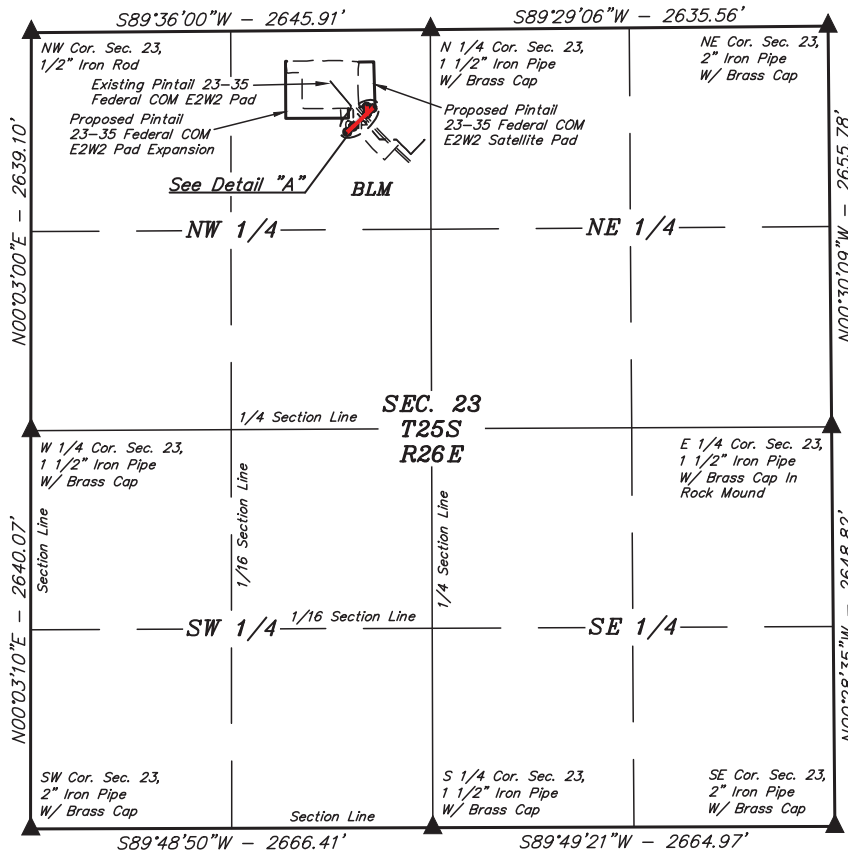
**PINTAIL 23-35 FEDERAL COM E2W2 PAD
SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	L.T.T.	10-23-25	N/A

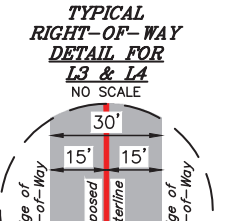
OVERALL POWER LINE R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

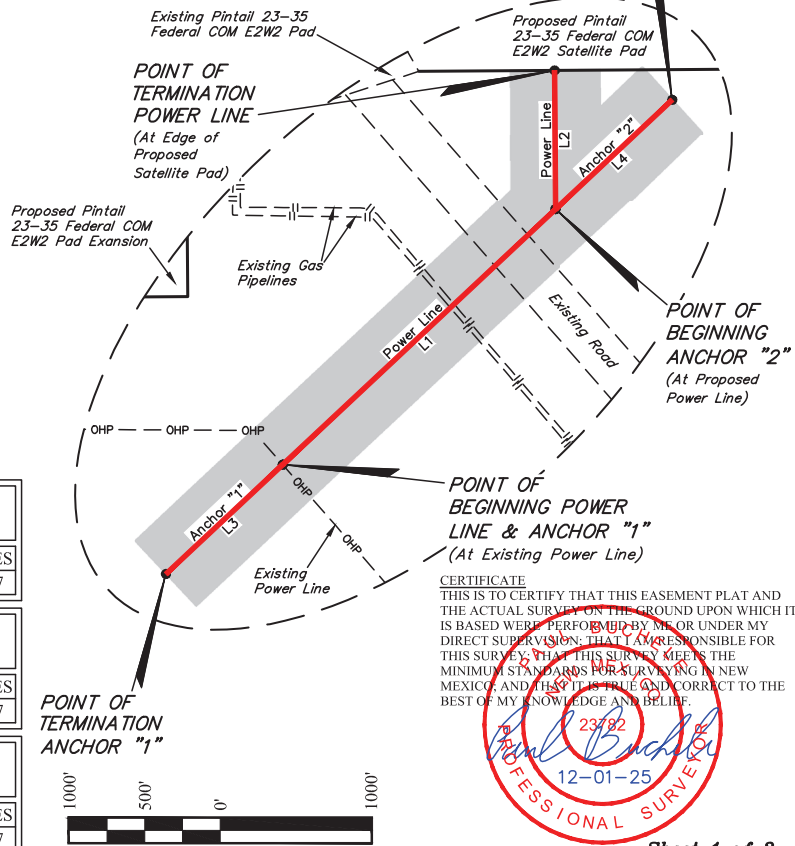


TYPICAL RIGHT-OF-WAY DETAIL FOR L1 & L2 NO SCALE



TYPICAL RIGHT-OF-WAY DETAIL FOR L3 & L4 NO SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N46°53'03"E	123.86'
L2	N00°24'00"W	45.94'
L3	S46°53'03"W	53.00'
L4	N46°53'03"E	53.00'



ACREAGE / LENGTH TABLE POWER LINE			
LOCATION	FEET	RODS	ACRES
SEC. 23 (NW 1/4)	169.80	10.29	0.117

ACREAGE / LENGTH TABLE ANCHOR "1"			
LOCATION	FEET	RODS	ACRES
SEC. 23 (NW 1/4)	53.00	3.21	0.037

ACREAGE / LENGTH TABLE ANCHOR "2"			
LOCATION	FEET	RODS	ACRES
SEC. 23 (NW 1/4)	53.00	3.21	0.037

CERTIFICATE
 THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



▲ = SECTION CORNERS LOCATED.

REV: 1 12-01-25 T.I.R. (UPDATE COMPANY NAME)

NOTES:
 • Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

CIMAREX ENERGY CO. OF COLORADO
 PINTAIL 23-35 FEDERAL COM E2W2 PAD
 ON BLM LANDS IN
 SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	L.T.T.	10-23-25	1" = 1000'
FILE	COT01-25-0073-A1		

POWER LINE R-O-W EXHIBIT I



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M., FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 23 BEARS N89°29'06"E 2635.56', THENCE S38°37'40"W 820.53' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23 AND THE POINT OF BEGINNING; THENCE N46°53'03"E 123.86'; THENCE N00°24'00"W 45.94' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS S39°35'30"W 662.36' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.117 ACRES MORE OR LESS.

POINT OF BEGINNING POWER LINE BEARS S38°37'40"W 820.53' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

POINT OF TERMINATION POWER LINE BEARS S39°35'30"W 662.36' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

ANCHOR "1" RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M., FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 23 BEARS N89°29'06"E 2635.56', THENCE S38°37'40"W 820.53' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23 AND THE POINT OF BEGINNING; THENCE S46°53'03"W 53.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS S39°07'38"W 873.02' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.037 ACRES MORE OR LESS.

POINT OF BEGINNING ANCHOR "1" BEARS S38°37'40"W 820.53' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

POINT OF TERMINATION ANCHOR "1" BEARS S39°07'38"W 873.02' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

ANCHOR "2" RIGHT-OF-WAY DESCRIPTION

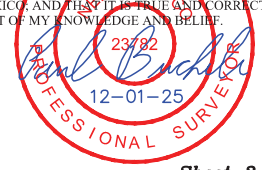
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M., FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 23 BEARS N89°29'06"E 2635.56', THENCE S37°10'05"W 698.18' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23 AND THE POINT OF BEGINNING; THENCE N46°53'03"E 53.00' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS S36°22'29"W 646.00' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.037 ACRES MORE OR LESS.

POINT OF BEGINNING ANCHOR "2" BEARS S37°10'05"W 698.18' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

POINT OF TERMINATION ANCHOR "2" BEARS S36°22'29"W 646.00' FROM THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Sheet 2 of 2

REV: 1 12-01-25 T.I.R. (UPDATE COMPANY NAME)

NOTES:
• Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

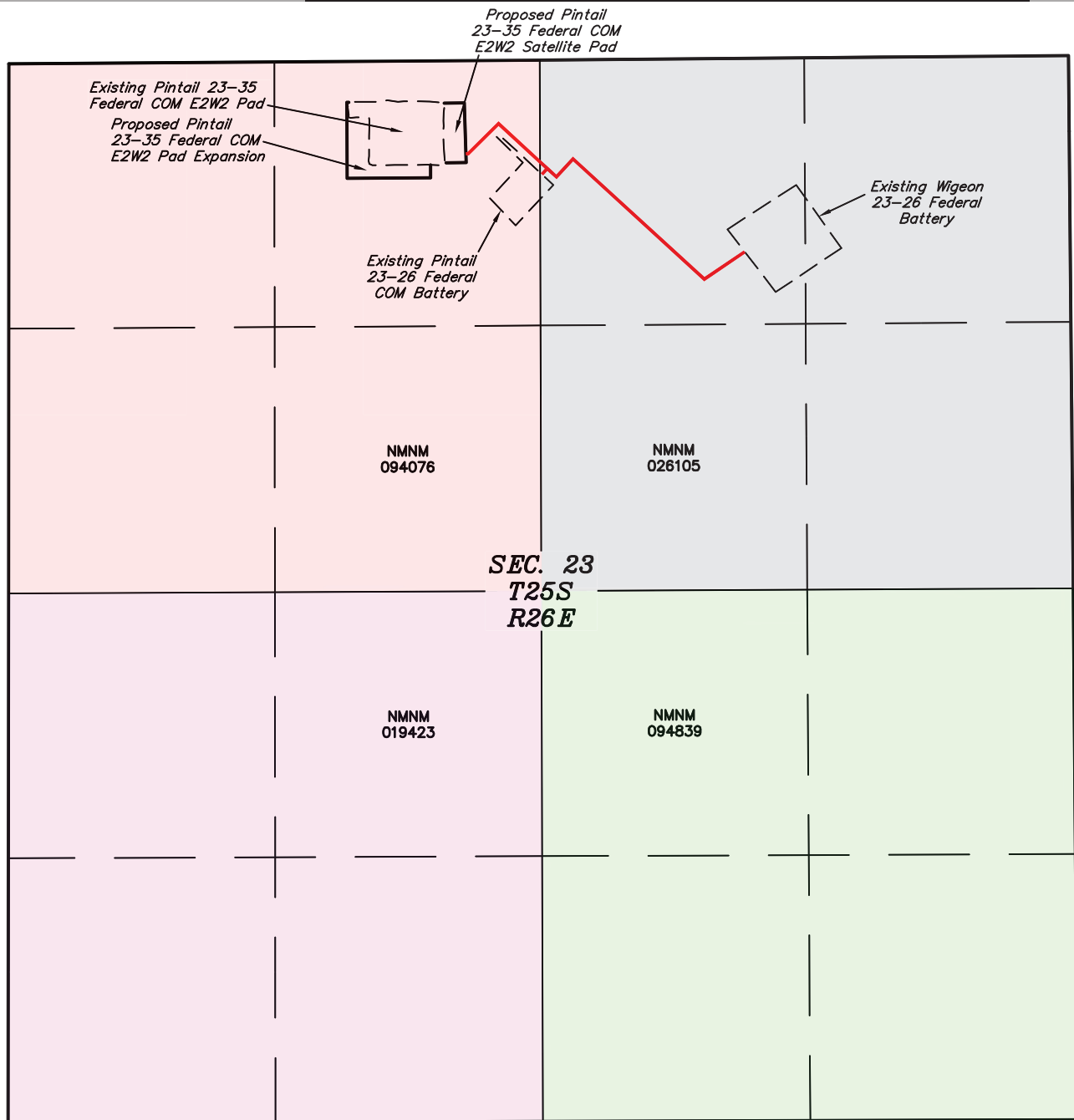
CIMAREX ENERGY CO. OF COLORADO
PINTAIL 23-35 FEDERAL COM E2W2 PAD
ON BLM LANDS IN
SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	L.T.T.	10-23-25	N/A
FILE	COT01-25-0073-A2		

POWER LINE R-O-W EXHIBIT I



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LEGEND:

- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE

NOTE:

- Colored areas within section lines represent Federal oil & gas leases.

REV: 1 12-01-25 T.I.R. (UPDATE COMPANY NAME)

CIMAREX ENERGY CO. OF COLORADO

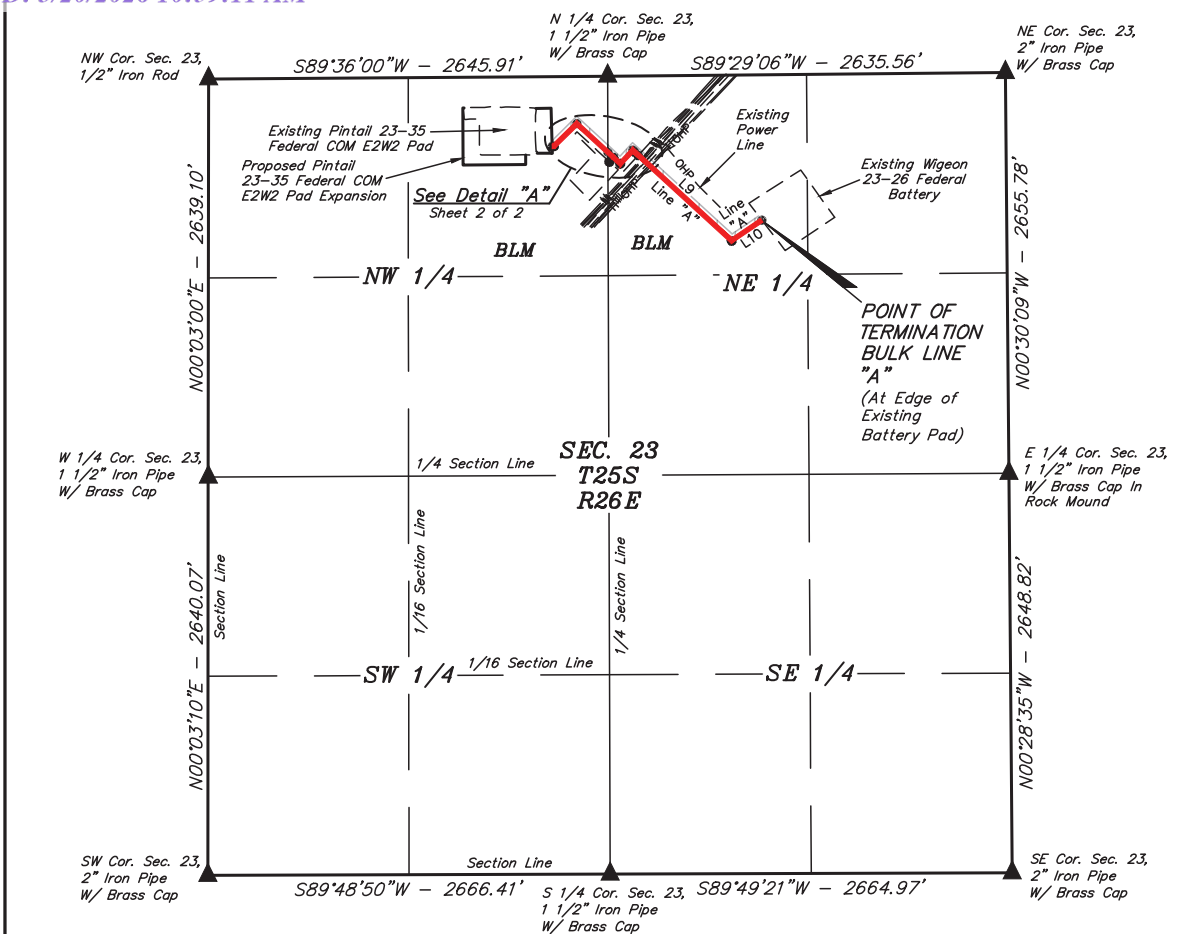
**PINTAIL 23-35 FEDERAL COM E2W2 PAD
SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	L.T.T.	10-23-25	N/A

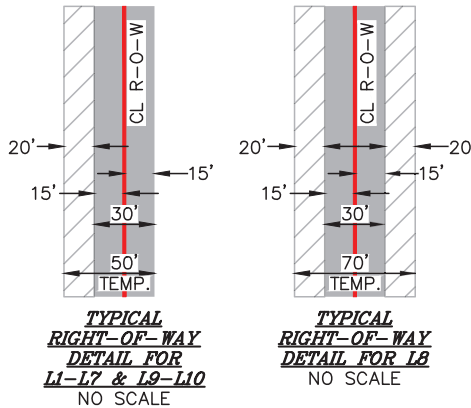
OVERALL BULK LINE R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N88°22'01"E	10.98'
L2	N45°23'09"E	213.71'
L3	S47°21'14"E	281.18'
L4	S47°21'14"E	49.49'
L5	S47°21'14"E	61.45'
L6	N42°44'52"E	122.20'
L7	S47°30'37"E	15.00'
L8	S47°30'37"E	35.00'
L9	S47°30'37"E	838.17'
L10	N55°50'37"E	242.04'
L11	S42°55'09"W	39.71'



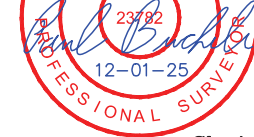
ACREAGE / LENGTH TABLE BULK LINE "A"				
LOCATION	FEET	RODS	ACRES	TEMP. ACRES
SEC. 23 (NW 1/4)	505.87	30.66	0.348	0.232
SEC. 23 (NE 1/4)	1,363.35	82.63	0.939	0.642
TOTAL	1,869.22	113.29	1.287	0.874

ACREAGE / LENGTH TABLE BULK LINE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 23 (NE 1/4)	39.71	2.41	0.027



▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Sheet 1 of 2

REV: 1 12-01-25 T.I.R. (UPDATE COMPANY NAME & RIGHT-OF-WAY WIDTH)

NOTES:

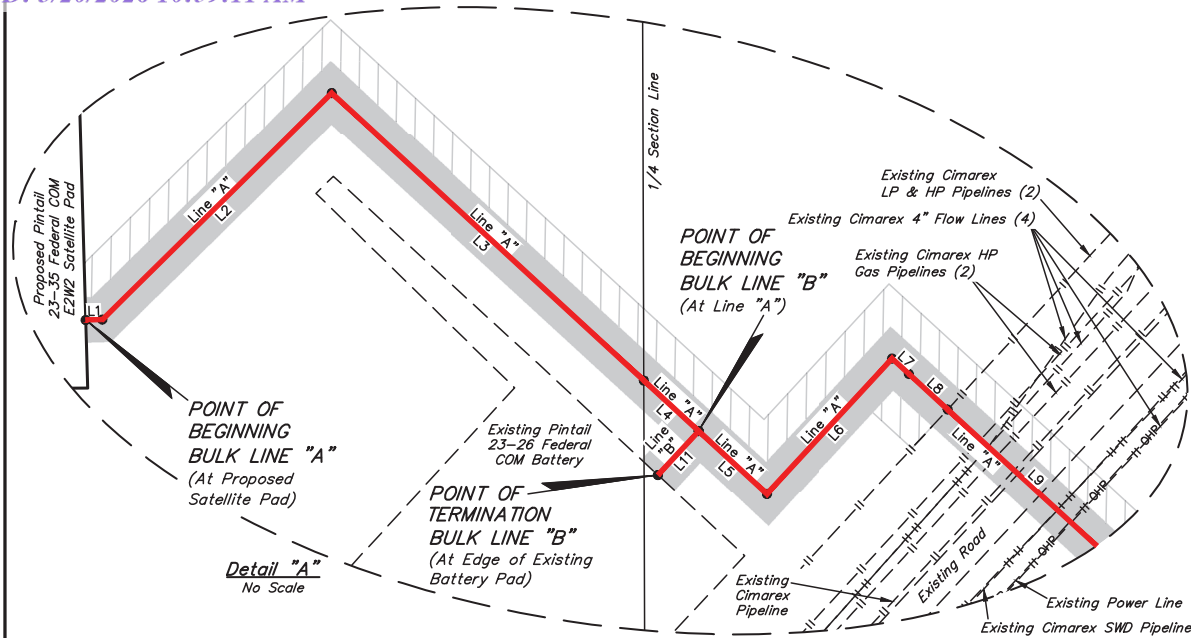
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.

CIMAREX ENERGY CO. OF COLORADO
PINTAIL 23-35 FEDERAL COM E2W2 PAD
ON BLM LANDS IN
SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	L.T.T.	10-23-25	1" = 1000'
FILE	COT01-25-0073-A1		
BULK LINE R-O-W		EXHIBIT M	



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



BULK LINE "A" RIGHT-OF-WAY DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M., FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 23 BEARS N89°29'06"E 2635.56', THENCE S38°23'10"W 593.30' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 23 AND THE POINT OF BEGINNING; THENCE A 30' RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 20' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 50' DURING THE CONSTRUCTION N88°22'01"E 213.71'; THENCE S47°21'14"E 281.18' TO A POINT ON THE EAST LINE OF THE NE 1/4 NW 1/4; THENCE CONTINUING S47°21'14"E 49.49'; THENCE CONTINUING S47°21'14"E 61.45'; THENCE N42°44'52"E 122.20'; THENCE S47°30'37"E 15.00'; THENCE CONTINUING A 30' RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 20' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE AND A 20' WIDE TEMPORARY RIGHT-OF-WAY ON THE RIGHT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 70' DURING CONSTRUCTION S47°30'37"E 35.00'; THENCE CONTINUING A 30' RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 20' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 50' DURING THE CONSTRUCTION S47°30'37"E 838.17'; THENCE N55°50'37"E 242.04' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS S46°56'00"E 1397.95' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.287 ACRES MORE OR LESS. TEMPORARY RIGHT-OF-WAY CONTAINS 0.874 ACRES.

POINT OF BEGINNING BULK LINE "A" BEARS
S38°23'10"W 593.30' FROM THE NORTH 1/4
CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

POINT OF TERMINATION BULK LINE "A" BEARS
S46°56'00"E 1397.95' FROM THE NORTH 1/4
CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

BULK LINE "B" RIGHT-OF-WAY DESCRIPTION

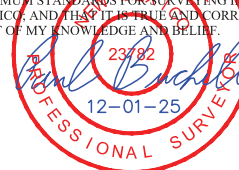
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 23, T25S, R26E, N.M.P.M., FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 23 BEARS N89°29'06"E 2635.56', THENCE S04°01'33"E 540.00' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 23 AND THE POINT OF BEGINNING; THENCE S42°55'09"W 39.71' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS S01°05'50"E 567.85' FROM THE NORTH 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.027 ACRES MORE OR LESS.

POINT OF BEGINNING BULK LINE "B" BEARS
S04°01'33"E 540.00' FROM THE NORTH 1/4
CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

POINT OF TERMINATION BULK LINE "B" BEARS
S01°05'50"E 567.85' FROM THE NORTH 1/4
CORNER OF SECTION 23, T25S, R26E, N.M.P.M.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Sheet 2 of 2

REV: 1 12-01-25 T.I.R. (UPDATE COMPANY NAME & RIGHT-OF-WAY WIDTH)

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
- Water bars to be constructed along route every 6' of elevation change.



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



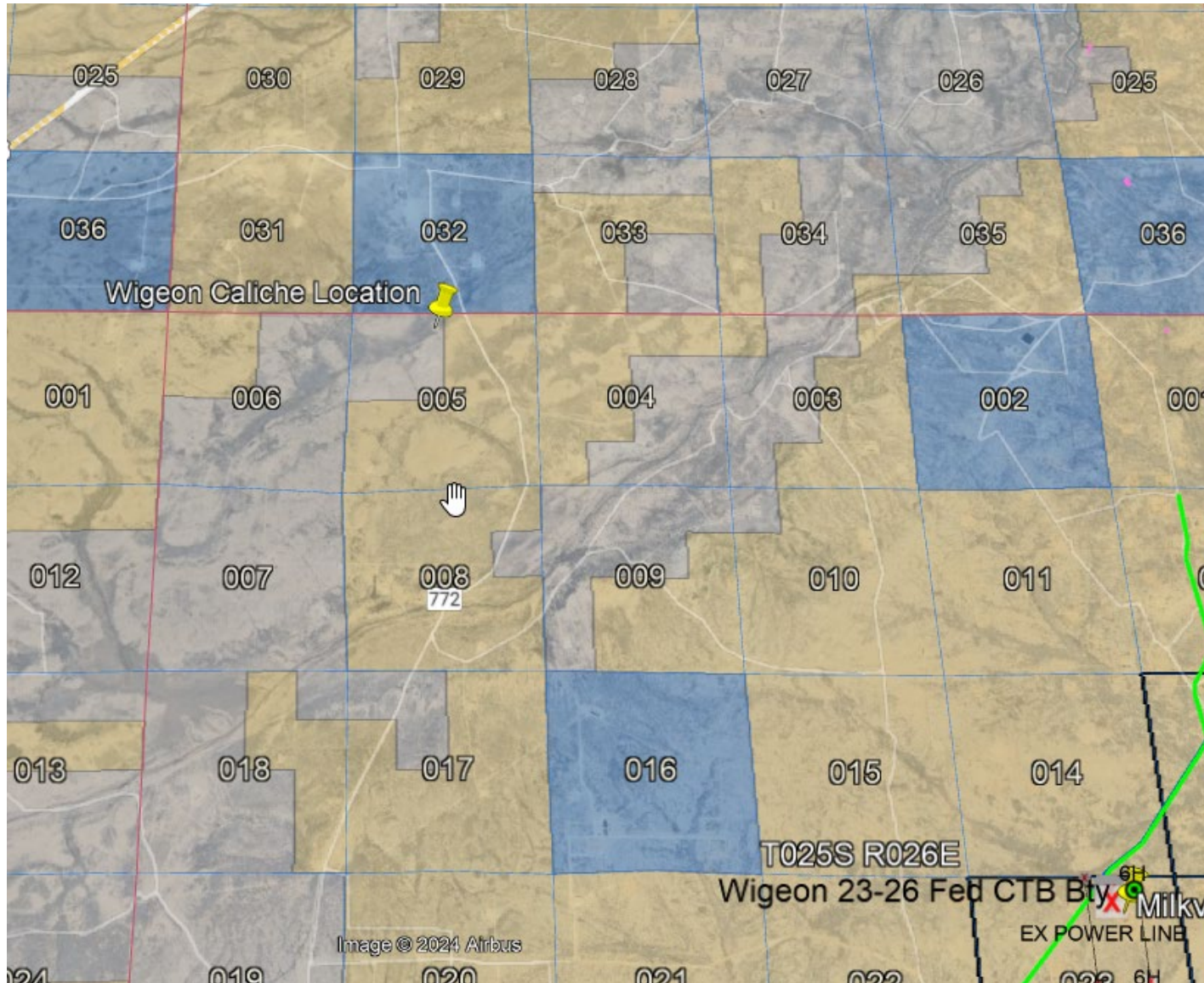
CIMAREX ENERGY CO. OF COLORADO
PINTAIL 23-35 FEDERAL COM E2W2 PAD
ON BLM LANDS IN
SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

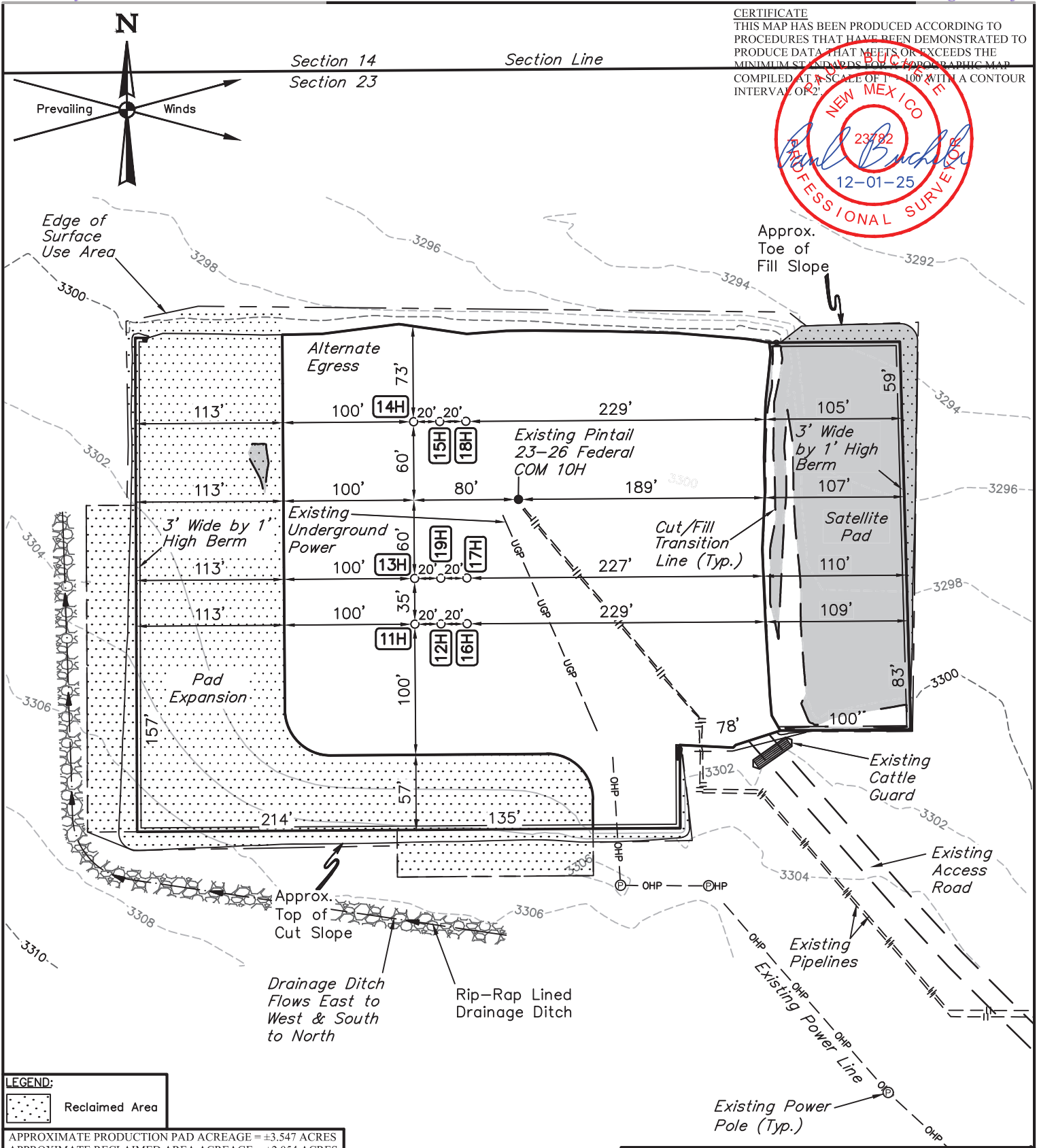
SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	L.T.T.	10-23-25	N/A
FILE	COT01-25-0073-A2		
BULK LINE R-O-W			EXHIBIT M

Wigeon 23-26 Water Transportation Map – Water supply 32.105560, -104.270009



Pintail 23-26-35 Fed Com Caliche Location – Section 5/T25S/R26E 32.165186, -104.315946





LEGEND:
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±3.547 ACRES
 APPROXIMATE RECLAIMED AREA ACREAGE = ±2.054 ACRES
 TOTAL ACREAGE = ±5.601 ACRES

NOTES:
 • Contours shown at 2' intervals.

REV: 1 12-01-25 T.I.R. (UPDATE COMPANY NAME)

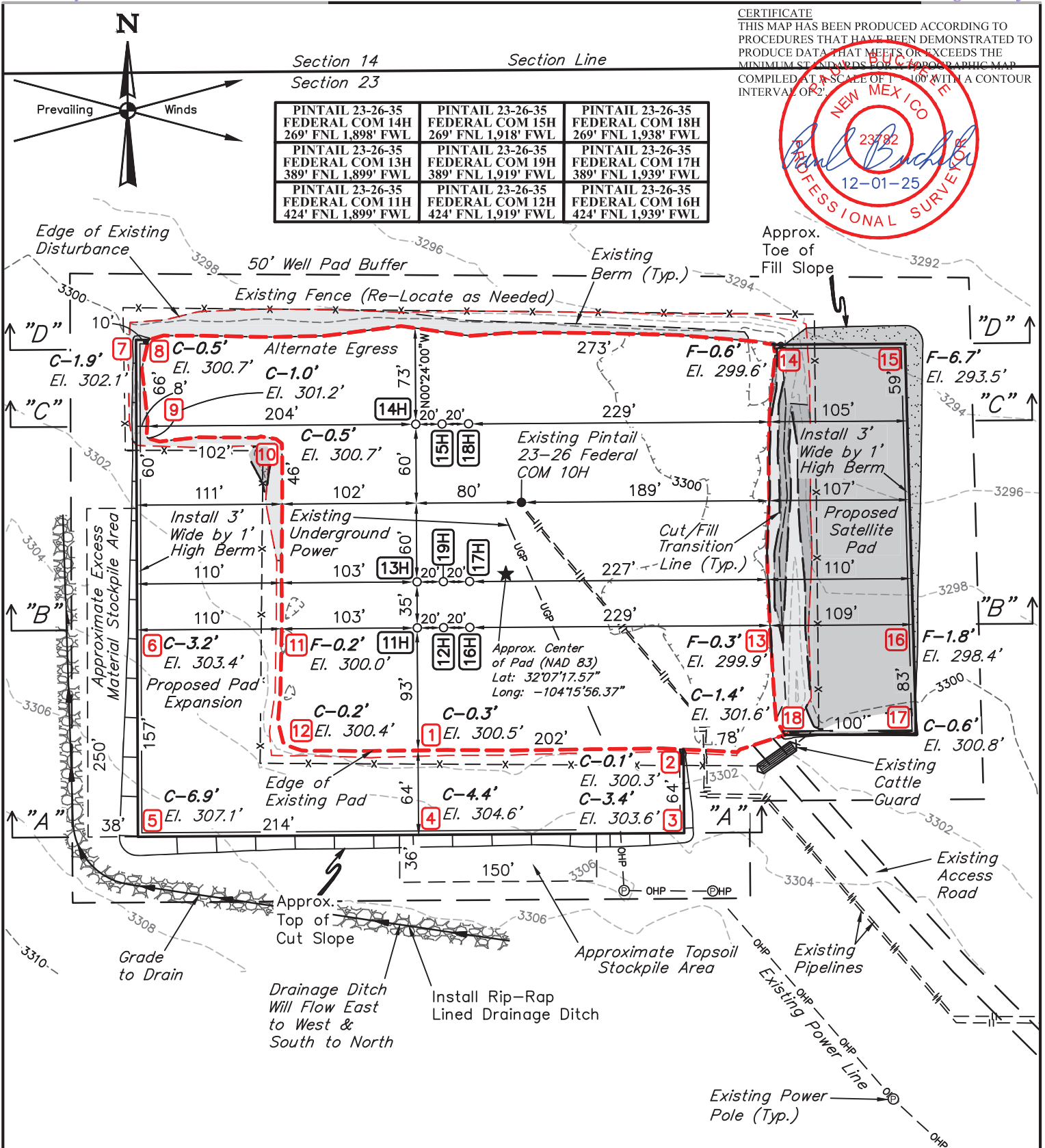
CIMAREX ENERGY CO. OF COLORADO

PINTAIL 23-35 FEDERAL COM E2W2 PAD
383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	H.S.S.	11-06-25	1" = 100'
RECLAMATION DIAGRAM		EXHIBIT P	

UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017





FINISHED GRADE ELEVATION = 3,300.2' REV: 2 12-01-25 T.I.R. (UPDATE COMPANY NAME)

- NOTES:**
- Flare pit is to be located a min. of 100' from the wellhead.
 - Contours shown at 2' intervals.
 - Cut/Fill slopes 2:1 (Typ. except where noted)
 - Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

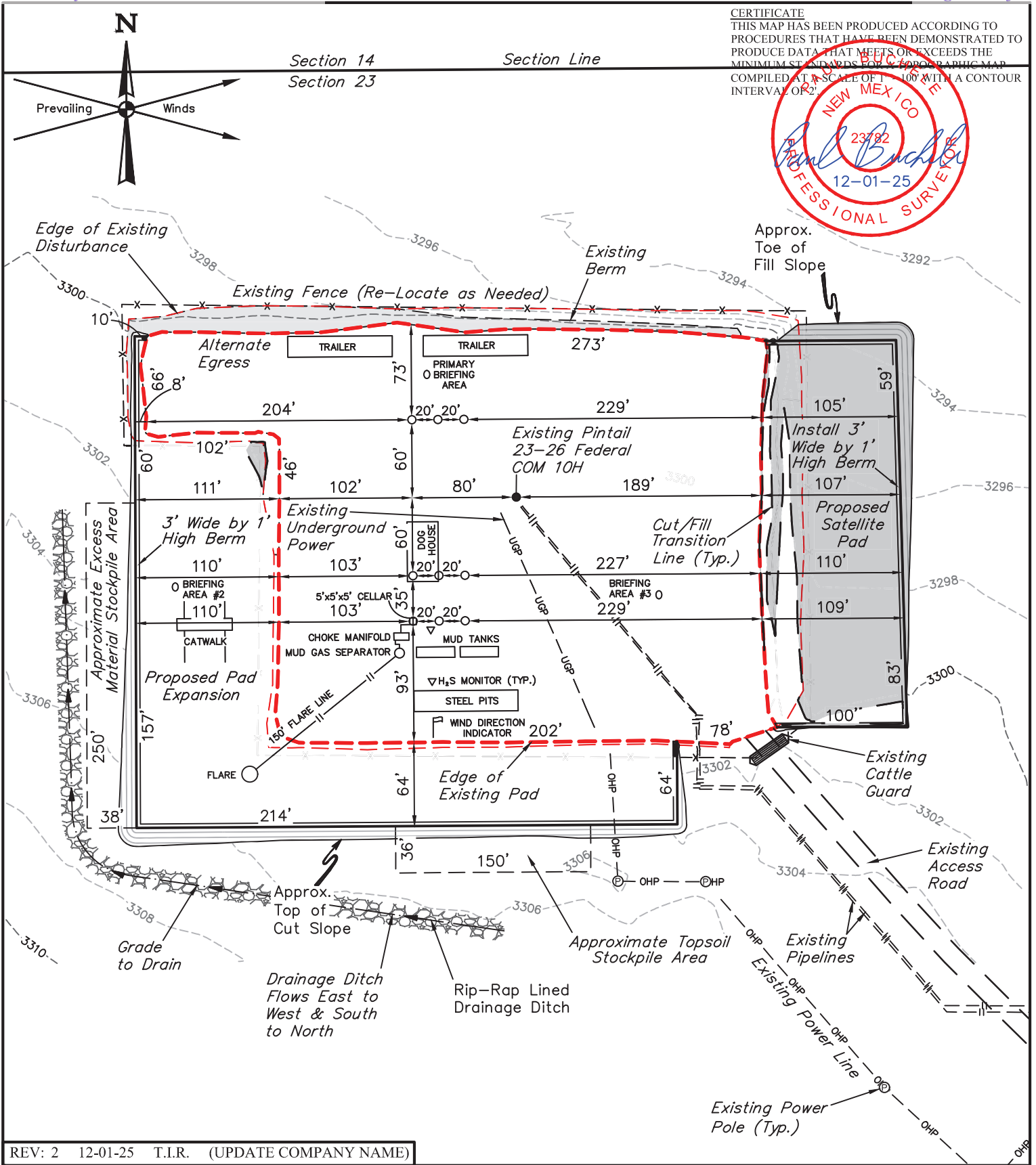
CIMAREX ENERGY CO. OF COLORADO

PINTAIL 23-35 FEDERAL COM E2W2 PAD
383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

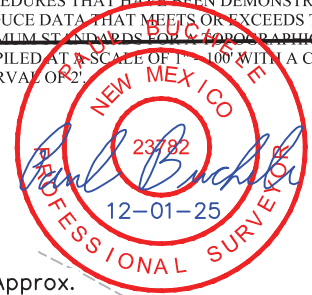
UINTEAH
ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	D.J.S.	02-28-19	1" = 100'
LOCATION LAYOUT		EXHIBIT J	



CERTIFICATE
 THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A GEODESIC MAP COMPILED AT A SCALE OF 1" = 100' WITH A CONTOUR INTERVAL OF 2'.



REV: 2 12-01-25 T.I.R. (UPDATE COMPANY NAME)

NOTES:

- Contours shown at 2' intervals.

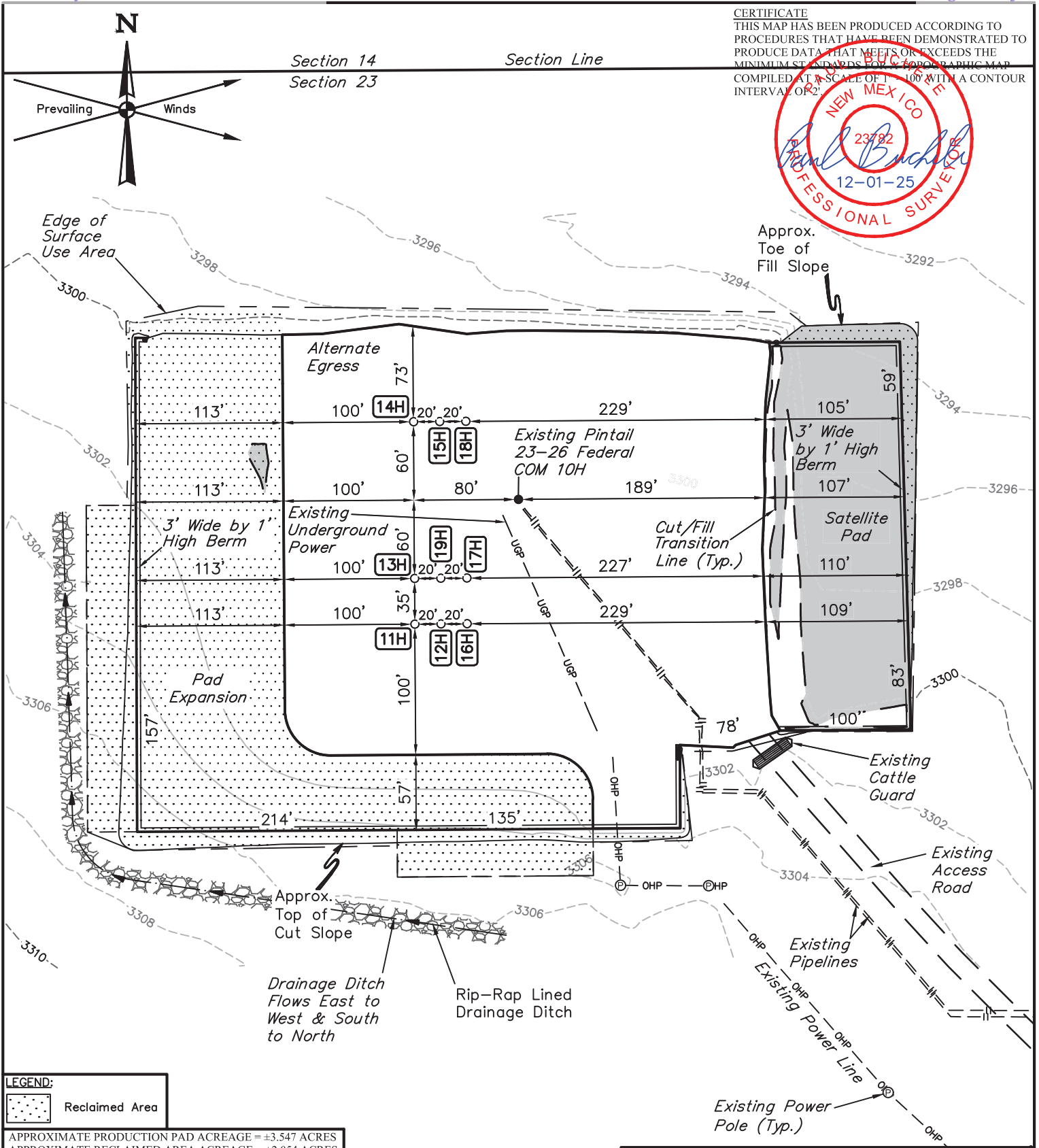
CIMAREX ENERGY CO. OF COLORADO

PINTAIL 23-35 FEDERAL COM E2W2 PAD
383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	D.J.S.	02-28-19	1" = 100'
TYPICAL RIG LAYOUT			EXHIBIT K



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



NOTES:
 • Contours shown at 2' intervals.

CIMAREX ENERGY CO. OF COLORADO
 PINTAIL 23-35 FEDERAL COM E2W2 PAD
 383' FNL 1,967' FWL (APPROX. CENTER OF PAD)
 NE 1/4 NW 1/4, SECTION 23, T25S, R26E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

UINTAH
 ENGINEERING & LAND SURVEYING

UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.S., G.M.	10-08-25	SCALE
DRAWN BY	H.S.S.	11-06-25	1" = 100'
RECLAMATION DIAGRAM		EXHIBIT P	



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report

03/18/2026

APD ID: 10400109580

Submission Date: 01/19/2026

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: COTERRA ENERGY OPERATING CO	
Well Name: PINTAIL 23-26-35 FEDERAL COM	Well Number: 12H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data

03/18/2026

APD ID: 10400109580

Submission Date: 01/19/2026

Highlighted data reflects the most recent changes
[Show Final Text](#)

Operator Name: COTERRA ENERGY OPERATING CO

Well Name: PINTAIL 23-26-35 FEDERAL COM

Well Number: 12H

Well Type: OIL WELL

Well Work Type: Drill

Bond

Federal/Indian APD: FED

BLM Bond number: NMB001188

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: PINTAIL 23-26-35
FEDERAL COM

Well Location: T25S / R26E / SEC 23 /
NENW / 32.121434 / -104.265875

County or Parish/State: EDDY /
NM

Well Number: 12H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM94076

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: COTERRA ENERGY
OPERATING CO

Notice of Intent

Sundry ID: 2901438

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/19/2026

Time Sundry Submitted: 01:23

Date proposed operation will begin: 03/18/2026

Procedure Description: Coterra Energy Operating Co. respectfully requests a name change for the Pintail 23-26-35 Federal Com 12H (APD ID: 10400109580). Please change the Well Name from 'PINTAIL 23-26-35 FEDERAL COM' to 'PINTAIL 23-35 FEDERAL COM'. Please see the attached revised C102.

NOI Attachments

Procedure Description

PINTAIL_23_35_FEDERAL_COM_C102_12H_3.19.2026_20260319132245.pdf

Well Name: PINTAIL 23-26-35
FEDERAL COM

Well Location: T25S / R26E / SEC 23 /
NENW / 32.121434 / -104.265875

County or Parish/State: EDDY /
NM

Well Number: 12H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM94076

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: COTERRA ENERGY
OPERATING CO

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CRYSTAL DENSON

Signed on: MAR 19, 2026 01:23 PM

Name: COTERRA ENERGY OPERATING CO

Title: Regulatory Analyst

Street Address: 6001 DEAUVILLE BLVD SUITE 300N

City: MIDLAND

State: TX

Phone: (432) 620-1644

Email address: CRYSTAL.DENSON@COTERRA.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 03/20/2026

Signature: Long Vo

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
Signature	Title
	Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by		
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title	Date
	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NENW / 424 FNL / 1899 FWL / TWSP: 25S / RANGE: 26E / SECTION: 23 / LAT: 32.121434 / LONG: -104.265875 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 100 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 23 / LAT: 32.122279 / LONG: -104.270945 (TVD: 7060 feet, MD: 7237 feet)
PPP: NWNW / 0 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 26 / LAT: 32.108042 / LONG: -104.2709 (TVD: 7634 feet, MD: 8607 feet)
PPP: NWSW / 2640 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 23 / LAT: 32.115299 / LONG: -104.270923 (TVD: 7634 feet, MD: 8357 feet)
PPP: NWNW / 0 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 35 / LAT: 32.093534 / LONG: -104.271074 (TVD: 7634 feet, MD: 18065 feet)
PPP: SWNW / 1320 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 26 / LAT: 32.104414 / LONG: -104.270942 (TVD: 7634 feet, MD: 12817 feet)
PPP: NWSW / 2644 FNL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 26 / LAT: 32.100774 / LONG: -104.270984 (TVD: 7634 feet, MD: 15427 feet)
BHL: SWSW / 100 FSL / 330 FWL / TWSP: 25S / RANGE: 26E / SECTION: 35 / LAT: 32.079303 / LONG: -104.271291 (TVD: 7634 feet, MD: 23236 feet)

CONFIDENTIAL

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
		Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-58015	Pool Code 97916	Pool Name Wildcat G-04 S252623M; BONE SPRING
Property Code 339015	Property Name PINTAIL 23-35 FEDERAL COM	Well Number 12H
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Ground Level Elevation 3,300.5'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
C	23	25S	26E		424 NORTH	1,919 WEST	32.121434°	-104.265811°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	35	25S	26E		100 SOUTH	330 WEST	32.079303°	-104.271291°	EDDY

Dedicated Acres 960	Infill or Defining Well Infill Well	Defining Well API 16H - Pending	Overlapping Spacing Unit (Y/N) Y	Consolidation Code F
Order Numbers. Pending		Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	23	25S	26E		100 NORTH	330 WEST	32.122279°	-104.270945°	EDDY

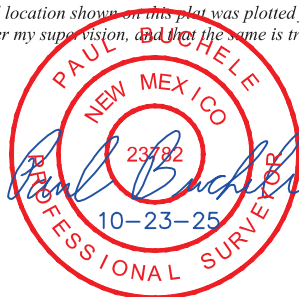
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	23	25S	26E		100 NORTH	330 WEST	32.122279°	-104.270945°	EDDY

Last Take Point (LTP)

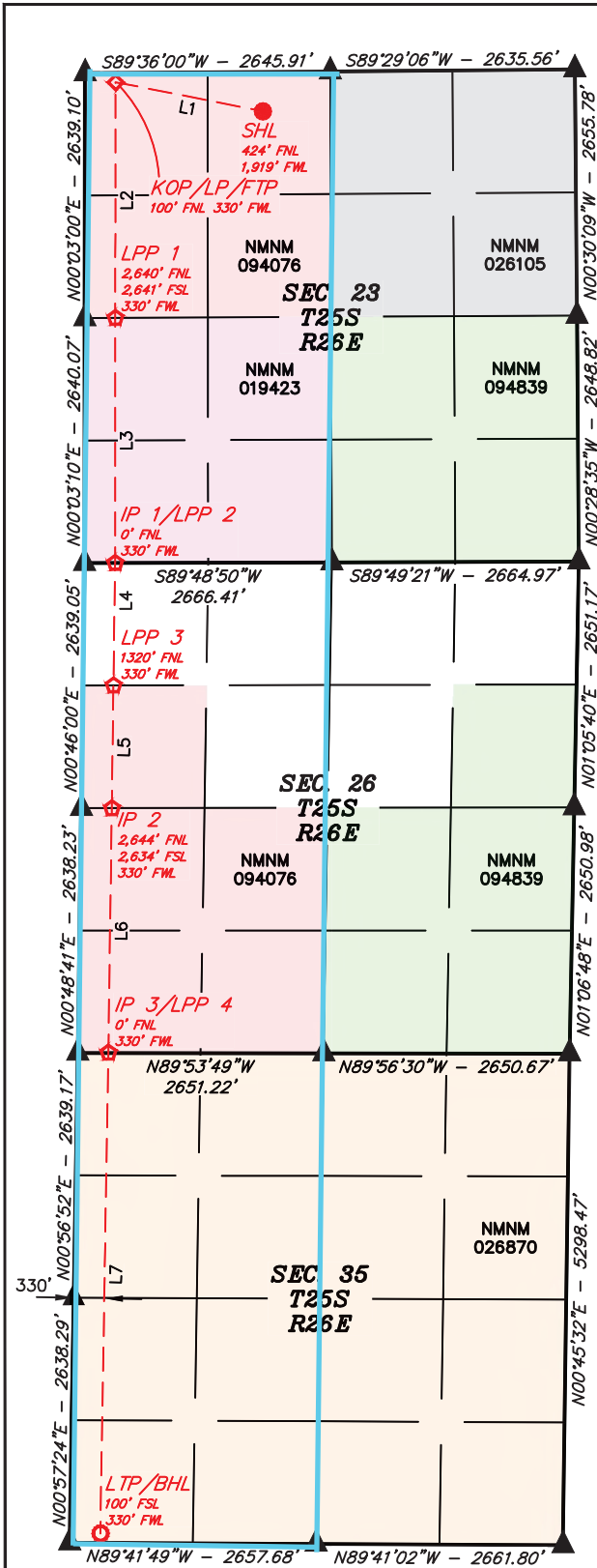
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	35	25S	26E		100 SOUTH	330 WEST	32.079303°	-104.271291°	EDDY

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3,300.5'
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<p>OPERATOR CERTIFICATIONS</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p> <p><u>Crystal Denson</u> 3/19/2026</p>	<p>SURVEYOR CERTIFICATIONS</p> <p><i>I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: center;">  </div>
Signature Date Crystal Denson Printed Name Crystal.Denson@coterra.com Email Address	Signature and Seal of Professional Surveyor 23782 October 8, 2025 Certificate Number Date of Survey

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name PINTAIL 23-26-35 FEDERAL COM	Well Number 12H	Drawn By L.T.T. 10-23-25	Revised By
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- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
- ◇ = LEASE PENETRATION POINT/INFLECTION POINT
- = LAST TAKE POINT/BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas represent Federal oil and gas leases.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N78°51'21"W	1619.44'
L2	S00°03'05"W	2539.81'
L3	S00°03'05"W	2640.58'
L4	S00°45'57"W	1319.91'
L5	S00°45'57"W	1324.76'
L6	S00°48'41"W	2634.28'
L7	S00°57'07"W	5178.61'

NAD 83 (SURFACE HOLE LOCATION)	LATITUDE = 32°07'17.16" (32.121434°)
	LONGITUDE = -104°15'56.92" (-104.265811°)
NAD 27 (SURFACE HOLE LOCATION)	LATITUDE = 32°07'16.73" (32.121314°)
	LONGITUDE = -104°15'55.13" (-104.265313°)
STATE PLANE NAD 83 (N.M. EAST)	N: 407920.44' E: 562241.12'
STATE PLANE NAD 27 (N.M. EAST)	N: 407863.30' E: 521058.19'
NAD 83 (KOP/LP/FTP)	LATITUDE = 32°07'20.20" (32.122279°)
	LONGITUDE = -104°16'15.40" (-104.270945°)
NAD 27 (KOP/LP/FTP)	LATITUDE = 32°07'19.77" (32.122159°)
	LONGITUDE = -104°16'13.61" (-104.270448°)
STATE PLANE NAD 83 (N.M. EAST)	N: 408226.73' E: 560651.30'
STATE PLANE NAD 27 (N.M. EAST)	N: 408169.62' E: 519468.39'
NAD 83 (LEASE PENETRATION POINT 1)	LATITUDE = 32°06'55.08" (32.115299°)
	LONGITUDE = -104°16'15.32" (-104.270923°)
NAD 27 (LEASE PENETRATION POINT 1)	LATITUDE = 32°06'54.64" (32.115179°)
	LONGITUDE = -104°16'13.53" (-104.270426°)
STATE PLANE NAD 83 (N.M. EAST)	N: 405687.54' E: 560659.63'
STATE PLANE NAD 27 (N.M. EAST)	N: 405630.47' E: 519476.67'
NAD 83 (IP 1/LPP 2)	LATITUDE = 32°06'28.95" (32.108042°)
	LONGITUDE = -104°16'15.24" (-104.270900°)
NAD 27 (IP 1/LPP 2)	LATITUDE = 32°06'28.52" (32.107922°)
	LONGITUDE = -104°16'13.45" (-104.270403°)
STATE PLANE NAD 83 (N.M. EAST)	N: 403047.60' E: 560668.28'
STATE PLANE NAD 27 (N.M. EAST)	N: 402990.58' E: 519485.29'
NAD 83 (LEASE PENETRATION POINT 3)	LATITUDE = 32°06'15.89" (32.104414°)
	LONGITUDE = -104°16'15.39" (-104.270942°)
NAD 27 (LEASE PENETRATION POINT 3)	LATITUDE = 32°06'15.46" (32.104294°)
	LONGITUDE = -104°16'13.60" (-104.270444°)
STATE PLANE NAD 83 (N.M. EAST)	N: 401728.07' E: 560656.15'
STATE PLANE NAD 27 (N.M. EAST)	N: 401671.07' E: 519473.14'
NAD 83 (INFLECTION POINT 2)	LATITUDE = 32°06'02.79" (32.100774°)
	LONGITUDE = -104°16'15.54" (-104.270984°)
NAD 27 (INFLECTION POINT 2)	LATITUDE = 32°06'02.35" (32.100654°)
	LONGITUDE = -104°16'13.75" (-104.270486°)
STATE PLANE NAD 83 (N.M. EAST)	N: 400403.67' E: 560643.98'
STATE PLANE NAD 27 (N.M. EAST)	N: 400346.70' E: 519460.95'
NAD 83 (IP 3/LPP 4)	LATITUDE = 32°05'36.72" (32.093534°)
	LONGITUDE = -104°16'15.86" (-104.271074°)
NAD 27 (IP 3/LPP 4)	LATITUDE = 32°05'36.29" (32.093414°)
	LONGITUDE = -104°16'14.07" (-104.270576°)
STATE PLANE NAD 83 (N.M. EAST)	N: 397770.16' E: 560617.68'
STATE PLANE NAD 27 (N.M. EAST)	N: 397713.23' E: 519434.61'
NAD 83 (LTP/BHL)	LATITUDE = 32°04'45.49" (32.079303°)
	LONGITUDE = -104°16'16.65" (-104.271291°)
NAD 27 (LTP/BHL)	LATITUDE = 32°04'45.06" (32.079183°)
	LONGITUDE = -104°16'14.86" (-104.270794°)
STATE PLANE NAD 83 (N.M. EAST)	N: 392593.19' E: 560553.25'
STATE PLANE NAD 27 (N.M. EAST)	N: 392536.36' E: 519370.10'



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 565163

ACKNOWLEDGMENTS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 565163
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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CONDITIONS

Action 565163

CONDITIONS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 565163
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
cdenson	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/20/2026
cdenson	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/20/2026
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	4/1/2026
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/1/2026
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	4/1/2026
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	4/1/2026
ward.rikala	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	4/1/2026